

10-799-747

EP 0 679 716 A1

CLONE:HUMGS01111

SEQUENCE DESCRIPTION:

GATCACGTGG GTGTCAGTAT CTTTAACGGC CTTTATTCTT GGTGTNAGA TTTTATTGA 60
TATGCCCCACT CACCCTCGAC GAATCTGCCC GCTTTGGGCT GTGGTGCCTG TGTATCTTTG 120
CCCGTCTGGT CTCCAGTTGG TGGAAATNACC TTTTGTGAC TGCCACTTCT CAGCATCTTT 180
NAAATTTGAC ATAATGTTGC TTCATTTCAG TTTTAAAGT TCTGTAATTT GTTGATTGTA 240
TTTAACTATG TNAGTTCTGT TGTNATGTTT ACTGTATTGT AAAGCACCTC ATTCATGTNA 300
TGAGTGCTCT ATAAATCAAT AAATGATGAC TTAGAGGGCT GTAAA 345

SEQ ID NO:980

SEQUENCE LENGTH:344

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01112

SEQUENCE DESCRIPTION:

GATCTGCTTG GNGTTTTCTN CCCCCACCC CAAACTTCTG TCGAGGAGCA AGGCTTGCCA 60
GCAAGTCAGA AGGATTTGAA CCGAGCAGCC AATCTTTCCA GCCCTCCNT ACCGACCTCT 120
GTCTGGAGAC GCAGCAGCCT GTGTCTCCA GGGCCTCTGG TTTGTNGTAT TATAGTATAT 180
TTNGCTGTGG AAAATGTAC GTTTAGTCAC CTTGGAGCCA CTCACCTGGT CCGTTGTTT 240
TANCCCATCC CTTCTNTNGN GGGCTATTGA TTINTTCTNA GGAGAGTACA NCGTCACTAT 300
TGTAGNGTAA CCCTGTACTC AATATTACCA TAGNCGNTG NCGN 344

SEQ ID NO:981

SEQUENCE LENGTH:357

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01115

SEQUENCE DESCRIPTION:

GATCAGAAAC CAACCATGAA TGAACCCCTG GCTCCTTCAC CACCCACAG ATTGGTATGA 60
TGCTGCCGGC ACAGNTGGGA TACACAGGC TCCCCAGGC CTGAGCTGCT TCACTAGGGA 120
ATCCTGCCAC CACCCTGTCT TCCTCTGCAA GTGCTCAGGG AAATGGCCTT NCCGCCGGAG 180
NCATNCTATC TGNCTGACAG GCTGTGACTC TTCTCTCAAC CTTGGCCTTC TCCCCTCTTC 240
TGAGCTAGTT GGTGAATNN NNGTTAATGC TTAAGATTTG TTTTCTCTT TTCACAGCAA 300
CATTTTCTTG AATTTTTTTC TGCACAGCTT TTCCAAAATA AAAACCTTCC AAACAAA 357

SEQ ID NO:982

SEQUENCE LENGTH:340

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01116

SEQUENCE DESCRIPTION:

GATCAGAAAT AAGATTGACT TGGGTGTTAT ATTTATCTC TCTCCAGACT CTAGGTATAT 60
TTCCAACCTT ATATATCACA GTATTTAAAA AGACATGTTT GCATTGAGAA ATTAACCCTA 120
AAGGGTTTTT AATAGGGTGT AGACCTCCAG TACCTTTGTA ACTAAAGTCT GTCTAGTCAT 180
NGTAAATATT TATCTGTCAG TTTTGACAGA TTGGGGCCAG CTTGATGTTT TAAATCTTCA 240

GCCCGGTATG AAAACTTAAA GGTATATATT CANTTTTTTA CCATTTTATG GAAAATATTT 300
 AAAATCTGTT TTTACAGGGT TTTTTTTTTT TTTTTTTTTN 340

SEQ ID NO:983
 SEQUENCE LENGTH:340
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01117

SEQUENCE DESCRIPTION:
 GATCTGGTTC GGCTGCTGTC GGATGAGGAC GTAGCGCTCA TGGTGCGGCA GGCTCGTGGC 60
 CTCCTCTCCC AGAAGCGCCT CTTCCCTGG AAGCTGCACA TCACGCAGAA GGACAACCTAC 120
 AGGGTCTACA ACACGATGCC ATGAGCTGAC GGTGTCCCTG GAGCAGTGAG GGGACACCAG 180
 CAAAAACCTT CAGCTCTCAG AGGAGATTGG GACCAGGAAA ACCTGGGAGG ATGGGCAGAC 240
 TTCCTGTINT TGAGGCTAAT GGACCCGTGG GGCTTGTAAT CTGTCTCTTT CTACTATTTA 300
 CATCTGATTT AAATAAACCA TTCCATCTGA AAGGGGCAAA 340

SEQ ID NO:984
 SEQUENCE LENGTH:339
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01118

SEQUENCE DESCRIPTION:
 GATCTATGTA TTATTAGAAA AATGAAGTAT TTCTGACATG GAACAAAGAA AGTGAAACT 60
 GGTACTTAAT GGGGGAAGCA AAATTAGCTG GGAATAAAC GGACATGTTT TGTTTTGTGA 120
 ATTCTACCTA AATGTCTCTC TATCCACAGA GAACTAGTA TTACTTGAAG ATGTGAAAGT 180
 TCCTGTGGTA GCCATACCTT GAAGCACAGT GTTGTACAT AAGTAAATAT CTTGATTCTA 240
 AATTAATCC AGATTATCT AATATATATN ATTNATATC TTTGTTGTAT TAAANTGGTT 300
 TAATANTCAC TANAANTANN ACATTTTGN A TGTGGAAA 339

SEQ ID NO:985
 SEQUENCE LENGTH:339
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01119

SEQUENCE DESCRIPTION:
 GATCTCAGGA ATTTTGTAG GGGATTGAAG CCAGANCTAG TTGCGTCCCA GGGACCAAGA 60
 GAAAGAAGCA GATATCCAAA GGGTGCAGCC CTTTTGAAA GGGGTGTTA CGAGCAGCTG 120
 TGAGTNAGGG GACAAGGGGC AGGTCCAGG AGCCACACAC TCCCTTCCTC ACTTTGGACT 180
 GCTGCTCTN TTAGCTCCTC TGCCTCTGAA AAGCTGCTCG GGGTTTTNA TTTATAAAC 240
 CTCTCCAC CCNCCACCN CCACTTCCT GGGTTTCTC ATTGTCTTT TGCATCAGTA 300
 CTTGTATTG GGATATTAAG GAGATTTAAC TTGGGTAAG 339

SEQ ID NO:986
 SEQUENCE LENGTH:339
 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01120

SEQUENCE DESCRIPTION:

5 GATCCTTTCC GACACACATG TCTGAAGACT TATTTTCAAA GNCAGCACAT TTTTGGAAAC 60
 TAATCTCTTT TCCGTAATAT TTCCTTTATT TCAATGATTC TCAGAAGGCC AATTCAAACA 120
 AACCACATT TAAGGTTCTT TAGGATTATA GAATAAATTG GCTTCTGAGT GTTAGCTCAG 180
 TGAGCTAGGA AAGCACCAAT CGATATTTGT TTCCTTTAGG GATACTTTGT TCTCACCCT 240
 GTCCCTATGT CATCAAAATTT GGGAGAGATT TTTTAAATA CCACAATCAT TTGAAGAAAT 300
 10 GTATAAATAA ANTCTACTTT GAGGACTTTA CCAAGTAAA 339

SEQ ID NO:987

SEQUENCE LENGTH:337

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01122

SEQUENCE DESCRIPTION:

20 GATCCAAAGT GTTAAAAATG CTGAAGTCAT GTCAAGTACT GTCTGGAGGG TTTTTTTAAG 60
 AAAAGGCATT TGGCATTAA CTGTCTCTTG TTTTATTTT AAGTTTTTGG AAACCTTTTG 120
 ACATAAAATG CTGCCAAGTA TCTAAGAAAT GTATATACTG ACAGAAGATA TTTGAAAGTG 180
 GAAAATTGGA AATGAAATAT GTTGCTGGGN GCGTTAATCA CCTCCGCCCA GGATTAGTC 240
 ACTTGCAGGA CCTCTTTATA GTCTAGGATG GCAGAGCAGA AGATTTTAAT ATGCTTTTAT 300
 25 TAAGTGATGT AAAATAAATG CTTTTGGAT TATCAAA 337

SEQ ID NO:988

SEQUENCE LENGTH:371

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01123

SEQUENCE DESCRIPTION:

35 GATCGGCCAG CCCCCACCTA CAGCAACATG GAGGAGGTGG ATTAGCAGGT CCCTGGCTGA 60
 TGGGGGGGAC TGGGTTTGGG ACACCCACAC AGNGGGCCAG CTCCTTGCCG CTTCTCCTTC 120
 TCTAACCCAG AGGACACTGG CTCTGTCACT GGGAAAGCTGA GGGGTATGAT TTGGGTGTGG 180
 AGACCTCTCA GGTGGGACT TCTTGTGAGC TTGGACCCCT GACCAGTGGG CTTTGGCTTC 240
 TCCAGCCGCC TCCAGTGCTG CGTGATTGA TTCTGTTGTA CCTTCAATTC TTCTGACCCG 300
 40 CATTATAAAC ATTATAATTN NATTTCTAAAA ATTGTAATTT TTTTGGCAAT TTTGGAAGTG 360
 ACTGCTGCTG N 371

SEQ ID NO:989

SEQUENCE LENGTH:334

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01126

SEQUENCE DESCRIPTION:

50 GATCTTCTTT ATATTCTACT TGAGTGCTGT CTCCATGTTG ATGTATCTNA GCAGGTTGTC 60
 CACAGGTAGT CTAGGAGGGT GGCAACTTAG AGGTGGGGAG AGAGATTCTC TTATCCAACA 120

55

TCAACATCTT GGCAGATTG ACTCTCAATC TCTTCACTAA AGTTGTTAAG NTCNNCCGGT 180
 GATAAGTACT TCAATTTCAA CTTGTAGNNT GGGGAAATTT AGAATTATGC AGNTTATGGA 240
 ATTGTATATG ATGACATTG CAATAGGTCT ATTCTCTATC ATTGTAAGAA GNTGTGTGTA 300
 CTGGTATTG NCCCAAGTAA TAANCTAACT GAAA 334

SEQ ID NO:990
 SEQUENCE LENGTH:333
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01127

SEQUENCE DESCRIPTION:

GATCTGNCGT GCCCACCAC TGGTGATGGA AGGTTACAAG TGGCACTTCA ATGAGACGGT 60
 GCTCACTGTG TGGTCGGCAC CCAACNACTG CTACCGCTGT GGGCGTGTGG CAGCCATCTT 120
 GGAGCTGGAC GCGCATCTCC AGAAAGATTT CATCATCTTT NAGGCTGCTC CCCAAGAGAC 180
 ACGGGGCATC CCCTCCAAGA AGCCCGTGGC CGACTACTTC CTGTGACCCC GCGCGGCCCC 240
 TGCCNNTTNC AACCCCTTCTG GCCCTCGCAC CACTGTGACT CTGNCATCTT CCTNAGACGN 300
 AGGNTGGGCG TGGGNGGGNN TGTNCTGGNT NTN 333

SEQ ID NO:991
 SEQUENCE LENGTH:329
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01128

SEQUENCE DESCRIPTION:

GATCGGACTG AACAGGAATC CTCGGGGGGT GAACAGCCAT TCCTTCGTGA CCTGTGCACG 60
 NCTTCTGCAA CCCTGGAGCT CTGCTCGGCT AGTCTGACTC GAAAAGGGCG TGA CTCAAGC 120
 TGACGGGACT CCAGTAGGGA CTTTGAGAGC ACATTTTGTA AAAATATTTA TCTAGACGCA 180
 AATGCTTATC CATGAATGTC CTCTTAGACC ATTTGGGGAT GAAGCCATCT TAATAATTAG 240
 TAATAATTAA TTAGTAATAA TTAGTAAGCA TTTCTCAAT GCTCTGATTC CATCATGTTT 300
 TCTTAACATG ATA ACTTAAA AAATTGAAA 329

SEQ ID NO:992
 SEQUENCE LENGTH:332
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01129

SEQUENCE DESCRIPTION:

GATCCTCCTC AGAAACTACC GGACTTGTTT TCTGTATTGG TGTGTTTTGT ATCTTGCTTG 60
 AACTTCCTGT TCTTCTTGGT ATACTTTAAC ATTATNATNA TGTGGGATTC CAAAAGTGGA 120
 AGAAATCAGA AGAAATCAG CTAGCTGTAT TCCTAAACAA ATTGTTTCCT AAACAAATGT 180
 GAAAATGTGA ACAGTGCTGA AAGGTTTTGT GAACTTTTGT CTATGTATAA NTGAAATTAC 240
 CATTTTGAGA ACCATGGAAC CACAGGAAAG GAAATGGTGA AAAGTCATTG TTGTCTACAC 300
 AAAATAAATG TATATGGAGA CCAAAGACCA AA 332

SEQ ID NO:993

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01130

SEQUENCE DESCRIPTION:

GATCAAGAAA TCAGGATGGC CATTTATTTA ATATCCATTC ATTTCATGTT AGTGGGACTA 60
 TTAACCTTGT ACCAAGCAGG ACTCTATTTT AAACAAAATT TAAACTGTT TGTGGCCTAT 120
 ATGTGTTTAA TCCTGGTTAA AGATAAGCT TCATAATGCT GTTTTTATTC AACACATTAA 180
 CCAGCTGTAA AACACAGACC TTTATCANGA GTNGGCAAAG TTTCCAGGN TTCATATACA 240
 GNTAGGCTAT NNGNCATGTA TTTGAAACG CAGTGTNCA TNATGAAAGN GCTCTCAAGT 300
 NGCTTNAAG NTANTTTATT AAANGGGTNN 330

SEQ ID NO:994

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01131

SEQUENCE DESCRIPTION:

GATCCGGGCC TTGCGTGCAG CCTCCCAACC ATGGGCTGGG TTNGTGCTT ACTGTATGTT 60
 GGCAGCTTGG NNAGGGCAGG AGACGCAGCG TGGAGCCTAC CTCCCACAT TCACGCTTCG 120
 CCCACGNTGC TCCGACTGGC TGCAGCGGAC ACTGCCCAA GCAGAGGGGA GTCTCAGTGT 180
 CCTGCNAGCC AGCCGAACAC TTCTCTCCGG AAGNAGGCTG GTTCGACTGT NAGGTGTTGA 240
 CTAACCTGTT TCTCTGACTC GCCCANAGGT CGTGGCTAAA GGCACCTAGG CGNCTTAAAT 300
 TTGTAATAA AATGTTACTA CGGTTTTAAA 330

SEQ ID NO:995

SEQUENCE LENGTH:338

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01132

SEQUENCE DESCRIPTION:

GATCTGAATG ATGATGGAAA CATGCAGACA GCCTCTCAGT CTTACTATTT AATGTTGTAG 60
 CTGGGAAAAA ACCCAGAGAG GTTAACTGAT ATACTGGGT GGGACTAGGA TGTGGGTTTT 120
 GTNACTCTNA ATCCCATGTC CTCAAACCTAC GCTGCCTTCC GAAGTCTGGC ATTTGTNAGC 180
 TCATGCTTCC TTGTAGTCCA GCTTCTTATG TGCCTGTAAT ATTCTCCAGT ANGATTGTAA 240
 GCCCCTTAAG GGCAGGGACG TCTTNCATC TCTAGCACTG CTATAGTGT CTATCCTTAG 300
 TTATGGACCT AGATAAATAA NTNGGTGGTG GCAACAAA 338

SEQ ID NO:996

SEQUENCE LENGTH:328

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01133

SEQUENCE DESCRIPTION:

GATCTTTATA TTNATACTC TAAANTCGTA CAAGCCAATC TNCATTTCNA CTAGTGGA 60

CTGTATAGCT GGTCACTTT CCAGGACCCT TTTATCAAGA AACAATGCAG CTTCTACATT 120
 TGTNCTGCTT CTACACAAA ACAGCTGGAA TGTATATNGT ATGGTTCTGG ATGCTCTTGT 180
 ATACCTNACT CTTCAATTCT NACCTAACCC ATGTGCTATG ATTTGAATGT TTCTCCCCTG 240
 CAAAACATCAT GTTGAAATGT AATTGCCATG NTAACAGTAT TANTAGGTGG NNTATTTNAG 300
 NGGTGNTTAG GGTGGGATTG GTGNTGTN 328

SEQ ID NO:997

SEQUENCE LENGTH:326

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01134

SEQUENCE DESCRIPTION:

GATCTTGTGT CTTAGAGAAG CCCCCATACC TGGTAGAGCA TGTACCATCT TACATGCTTA 60
 AATAACTCCA CATTATTTTG TGTATATNAC TCTGTGTTAT AAATATACAT TTGTNGGTCT 120
 CTCTCTTGGA TTATTTTGTG TCTTTGTCCT GTAACCTACCA CTGAAAGGGT GCAATACAGC 180
 TTCTTTGAAA TGTGTATTGA ACGGATGAAT GTATAAATAA AANTTAAATT TTGTAAATTT 240
 CTGCTTATNC TTAGAAAAAG AATCTAAATN GTGACAAATC AGAATTGAAA AANGTATTCT 300
 AATAAAGANA AACANGCTTT TATAAA 326

SEQ ID NO:998

SEQUENCE LENGTH:325

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01135

SEQUENCE DESCRIPTION:

GATCCCCAGT GTTGGAGGTG GGACCTAAGT GGCAGGTGTT TGGGNCATGG GGATGGATTG 60
 CTCACAAACG GCTCGGTGGC CTCCTGCAG TAACGAGTGA GTTCACACAC TATTAGCTCA 120
 CATGAAACCT GGTATTATAA GAGTCTGGGA CCTCCCTCCA TGCTCTCTCT CTTGCTCCTT 180
 TCTCTACCA CATCACACGT GGCTCCCTTT GCCTTCTGCC ATGAGTGAAA GCTTCCTGAG 240
 GGCTCACCAC GACACAGATG CTGGTGTGAT GCTTTTTGTA CAGTCTGCAG AACCCCGAGT 300
 CAAATAAACC TCTTTTCTTT ATAAA 325

SEQ ID NO:999

SEQUENCE LENGTH:322

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01136

SEQUENCE DESCRIPTION:

GATCACTTTC AATTGAAGTC AGGGTATTGT GCATAATAGA AAGTATTGGA CTGAGATATT 60
 TGGTTACCAT GGAGGCCAAT GCTTTTTTCA TCTTATTAAA TGTGATGTGA CTTTTNCTT 120
 TGTACAGAAG AGTACTGTAT TTTTGAATAG CCTACTCCCA AGTAAGAGCA AATCTGTATG 180
 ATAACATTTT TNCCNCTGGA CATAAGACAT AACAGTAACA CGATGTACAT TTACAAGCGG 240
 CCTTATGTAC ATTTCCCAAC ANTCTTTTGA AGGCCAAATT GTGACCATAT GTGTATAATT 300
 AAAATCGTTT TTAATCCNTA AA 322

SEQ ID NO:1000

SEQUENCE LENGTH:322

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01137

SEQUENCE DESCRIPTION:

GATCTTAGAA ACCTCTGCAC AGAAGCTGCT TTGCTGGCTC TGCAAGAAAA TGGACTAGAC 60
 GCAACTACAG TNAACAAGA GCACCTTCTA AAATCACTTA AGACTGTAAA ACCGTCGTTA 120
 AGTTGCAAGG ACTTGGCTTT ATATGAAANC TTATTAAAGA AAGANGGATT TTCTAACGTG 180
 GAAGGTATTT AAAANTCACC TTAAACTCTT GTNCAGTTCA CATTAAATTGA AATGTGAACT 240
 TGCCTGTCGT TTGCAACTTC ACACCTTTAG AATTGTGTT TATATTCCT GTANGTGAAT 300
 AAATANANCA NNNCAGNNCA AA 322

SEQ ID NO:1001

SEQUENCE LENGTH:353

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01138

SEQUENCE DESCRIPTION:

GATCTCAGAA CAACCTTTCT TGTAGTAAC ATATTTTGG CAATACATAN CAACCTGGGC 60
 CTGGTGGATA ACCAACAAGA TGGGGAAGAA AAGNATTGAG AACTTTAAGA GTGGTGTGGA 120
 TGCAGACTCT TCTTATTNA AAATCTTTAA GACAAAACAT GACTGAAAAG AGCACCTGTA 180
 CTTTTCAAGC CACTGGAGGG AGAAATGGAA AACATGAAAA CAGCAATCTT CTTATGCTTC 240
 TGAATAATCA AAGACTAATT TGTGATTTTA CTTTTTAATA GATATGACTT TGCTTCCAAC 300
 ATGGAATGAA ATAAAAATA AATAATAAAA GATTGCCATG GANTCTTTGC AAA 353

SEQ ID NO:1002

SEQUENCE LENGTH:320

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01139

SEQUENCE DESCRIPTION:

GATCTGACCT GGTGAGATTA TTTCTGATGA CCTCATCAA AAATAACAA TTCCCAATGT 60
 TCCAGGTGAG GGCTTTGAAA GGCCTTCCAA ACAGCTCCGT CGCCCTAGC AACTCCACCA 120
 TTGGGCACTG CCATGCAGAG ACGTGGCTGG CCCAGAATGG CCTGTTGCCA TAGCAACTGG 180
 AGGCGATGGG GCAGTNAACA GANTAACAAC AGCAACAATG CCTTGCAGG CAGCCTGCTC 240
 CCCTGAGCGC TGGGCTGGTN ATGGCCGTTG GACTCTGTNA GATGGAGAGC CAATCTNACA 300
 TTCANGTNTT CACCAACCN 320

SEQ ID NO:1003

SEQUENCE LENGTH:318

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01140

SEQUENCE DESCRIPTION:

GATCCTNCNA GTTAGCCTAG TACTGCTGTA CTGGCCTGTA TGTACATGGG GTCCTTCAAC 60
 TGAGGCCTTG CAAGTNAAGC TGGCTGTGCC ATGTTTGTAG ATGGGGCAGA GNCATCTAGA 120
 ACAATGGGAA ACTTAGCTAT TTATATTAGG TACAGCTATT AAAACAAGGT AGGAATGAGG 180
 CTAGACCTTT AACTTCCCTA AGGCATACTT TTCTAGCTAC CTTCTGCCCT GTGTCTGGCA 240
 CCTACATCCT TGATGATTGT CCTCTTACCC ATTCTGGAAT TTTTTTTTNN GNNGATANNT 300
 ACAGAAAGCA TTTTAAAA 318

SEQ ID NO:1004
 SEQUENCE LENGTH:320
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01141

SEQUENCE DESCRIPTION:

GATCTTTCTG TCTTCTGGGT TCCATTTTTN AAATGTTTAA AAATATGTTG ACATGGTAGT 60
 TCAGTTCTTA ACCAATGACT TGGGGATGAT GCAAACAATT ACTGTCGTTG GGATTTAGAG 120
 TGTATTAGTC ACGCATGTAT GGGGAAGTAG TCTCGGGTAT GCTGTTGTGA AATTGAAACT 180
 GTAAAAGTAG ATGGTTGAAA GTACTGGTAT TGTGCTCTG TATGGTAAGA NCTAATTCTG 240
 TNNCGCCATG GTNCATAATT NCCTATNCAC CTNCCCTNCC CTTTNCAGC CCAATTAAAG 300
 GTTGGGGTCN TAACCTCAAA 320

SEQ ID NO:1005
 SEQUENCE LENGTH:315
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01142

SEQUENCE DESCRIPTION:

GATCTGGGGG CTCGAGACTC TGAAGGCAGG GACCCTCTGA CCATCGCCAT GGAACAGCC 60
 AACGCTGACA TCGTCACCCT GCTACGACTG GCAAAGATGA GGGAGGCTGA AGCGGCCAG 120
 GGGCAGGCAG GAGATGAGAC GTATCTTGAC ATCTTCCGCG ACTTCTCCCT CATGGCGTCA 180
 GACGACCCGG AGAAGCTGAG CCGTCGNAGT CATGACCTCC ACACGCTGTN ACCGAGGCC 240
 CACGGGGCCG CGCCTGCNTC CCTTCCCCGN NACCGNGCNN TCTGCCATTA AAGCCTCCGT 300
 GCTTCGNTCT TCAAA 315

SEQ ID NO:1006
 SEQUENCE LENGTH:315
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01143

SEQUENCE DESCRIPTION:

GATCCCTTGC NTGCCCTCC CTGTGGCAGG GCTAACTGCC TGGCCCTCCT GGCTCGCAGC 60
 CAGCCAGNCC CCTGGCAGCA GGTTCCTCTC AGGGCTTGGN TCTTCAACCT GTGGCGACAG 120
 GAGGCAGGGC AGACTGTGGA GGACAGGATG CAGGTCAGGG AGAGGGAAAG CAGGGGTGGA 180
 CCGCCATGAG CATGAAAAGC CCGAAGCAAG TTGACTCTTN AATTGCAAC TGTATGNTC 240
 TGAAAATGAG AACGATGTAT CAANTTGATG CANTTTNGAT GTTGTACTTA CAATAANGTT 300
 TTAATGTGTN TTAAA 315

SEQ ID NO:1007

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01144

SEQUENCE DESCRIPTION:

GATCTGAGGN CAGGANTTAA ACCACAGAAT GTATNTGCCT GTAAAGCACA GGGGAAGAAA 60
CGACTCATTAA GAACTACACC TGTACATAC CATTGGGTAA ATGNTTTAAG NGGGGAATGG 120
TGTGACAAAC CTTCAAAAAA NATGAACACC TTAATGTTCA GGAAGTGAAGC TAACTCCCTA 180
TGNTTAGGCA CAGCTTGATA CGAGCGGAGA CTTGGCAGTC AATTCCANGT CTTTATACT 240
NATTACCTCA TCGTNACTGT NAGTGCAACT ATAGTCTGTT GTNGGAATTT GGNCATCCCT 300
TAGTNTCNGA TGGTN 315

SEQ ID NO:1008

SEQUENCE LENGTH:314

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01145

SEQUENCE DESCRIPTION:

GATCAGAAAA AACAGAAGCC AAATCGGGG TCATCTTTGT TTTTAAAGCT GAAGTGGGAC 60
TGTCTGGCAC TCTGTGTATT TATGCGTTCC AGCATCTGGA ACCTCCCATC CCTGCCCTCC 120
TCCTGTGTAG CTGCCACCTC CCCGCTGGGC CCAGCATGGC TCACCTGTCC CGTGGGCTGT 180
GTTTCTTGT GTTTTCTCT TTGCAAAAGC ATAGCTAGGA AAGCGAATGA TAAGGGAAAA 240
GTTCTCAGGG AATTGAAGTG TTGTTGCTAT GGTGACGTCC TTTTGCTGTG AATAAAGGTG 300
CTCTTTGCAG CAAA 314

SEQ ID NO:1009

SEQUENCE LENGTH:313

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01147

SEQUENCE DESCRIPTION:

GATCCACAAT AGTGGCATGA GGCAGGCGAC TGTNTGTNAC CTCTATGTCC GCAGAGTCCA 60
GCACGCTAAC AGCTGGGAGA TAAAAGCAGT GGAGAGGGCT GTTGGGGGAC ATGCCATGGA 120
AACTACCTAG GACCTGTTCC CTGAGTTAAC ATTCTAGCCT CATCTACTTG TTTTGGCCCT 180
GCAGTCATA TACANACTGG CCCACCATTT ACGNACCATC CCCTCAAGTA ATCTTAAAGG 240
TTCTCAGCCC ANACANATTA ACTGTTCTGA CCCACCTNC TTAATAAACA ATCCTGGGNT 300
CAGCCATNTG AAA 313

SEQ ID NO:1010

SEQUENCE LENGTH:311

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01148

SEQUENCE DESCRIPTION:

5 GATCTGGCAG TTGAAAATTG TGGGAAAGAG AATTGTATG GGCACGTAT CTATGAAATA 60
 CCTCATAACT TACGTTTACA TGTTTCCTA ACTTTTNGTA TTTCTNNGT ATAGCCACCT 120
 AGAGAATTCT TCATAGATTA AGAACTACAG TTTNACCAC TTAACATAAG TAAAACAAAG 180
 TCCTTCATAA TTNAACCATT AGCATCTTG GCCAAACCA AATAAGANA AGCATCTNCT 240
 CCTAGTTGTG TGTGGGCAAC AGANACANGT TAAGGNAACA NAAATACTTA TATATACACN 300
 GANCANANGT N 311

SEQ ID NO:1011

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01149

SEQUENCE DESCRIPTION:

20 GATCTCCCTT GGTCTTCCAT GGGATGGTTA GTGTGGAGGG GAGATATAGA TTGTCCGGCC 60
 GNTTGTGAT TCCATGGGAT TGATTCAGTC TTCTGGATT TTTTNTCTGT ATATTNGGG 120
 TACTGGAGCT TTTAAAAATG CTTGGNTTCA GGTATTTTNA TTCATGTGAA GTGTATATGA 180
 TTCTNTTGAG ATAAGGTTTT AAGCTAAAAAT GTNACTCCCT GNTTNGCNT CTGAACCCCTG 240
 ACAGATTNAC AGGGACTTTG CTGGTGTAGG CTTTTTAAAG GGNTTANTAN TCCACTTTGA 300
 GCCTNAAA 308

SEQ ID NO:1012

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01150

SEQUENCE DESCRIPTION:

35 GATCTGGAGT TACCTGAGGC CATAGCTGCC CTATTCACCT CTAAGGGCCC TGTTTTGAGA 60
 TTGTTTGTTC TAATTTATTT TAAGCTAGGT AAGGCTGGGG GGAGGGTGGG GCCGTGGTCC 120
 CCTCAGCCTC CATGGGGAGG GAAGAAGGGG GAGCTCTTTT TTNACGTGA TTTTNTTTT 180
 TCTACTCTGT TTTCCCTTTN TCCTCCGNT CCATTGGGG CCCNGGGGT TTCAGTCATC 240
 TCCCCATNTG GNCCCCGGA CTGTCTTNGT TGATTCTAAC TNGGNNNGGA AAGAAANTAT 300
 TATTCAAA 308

SEQ ID NO:1013

SEQUENCE LENGTH:307

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01151

SEQUENCE DESCRIPTION:

45 GATCCATGGG GCCGCAATGA AGCTTGAGA TACATGGGTG GCTTTGCAA GAGTGTTC 60
 TTTTCTGATG TATTCTTTAA AGGATTCAA TGGGGATTG CTGCATTTGT GGTAGCTGTA 120
 GGAGCTGAAT ATTACCTGGA GTCCCTGAAT AAAGATAAGA AGCATCACTG AAGATAATAC 180
 CTGGAAGCAT CATAGTGGTT TCTTAACTCT CAAAAATAAG ATTTCTTCTC TGTAGCCTAC 240
 TTGTCTGGTT TATCCCTTAC AGAATATTAG TAAGATTTAA TCAATTAATA TATATATATA 300

TGCCAAA

307

SEQ ID NO:1014

SEQUENCE LENGTH:306

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01152

SEQUENCE DESCRIPTION:

GATCGGTCCA CGAAAGTTAG CCCATATGTA TATCTTGAAT AGTATAGGGG AGGGTATTCA 60
 TAAAGTCCTT ATGTGGTTTT AACTAAGTGA AATTATGGAC AAGAGAANN NTGTAAAAT 120
 CGTCTTAAAG GCAAATTTAA TTTNACTCC TGTATATGGG ACATTCGTTT TATTAAGTGT 180
 CAGACACAAT TTCTGTTTTT ATCTGAGAGC CAGTTTTCCT TTATTTCTAC ATCTAAAATA 240
 AGANCATATT GTACACTATT ATATAATACA GAATTGTCTT AAACITTAAT AAATTCGCAT 300
 TTAAAA 306

SEQ ID NO:1015

SEQUENCE LENGTH:306

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01153

SEQUENCE DESCRIPTION:

GATCTCAGCA GTGGGGCAGG AGGGTGCCTG ATTTGGGGGA GTCCTGACCC GAGCCTGTTG 60
 TCAGAGTTGG GAGGGGCTCT GAGCAGTGTT GGGCAGGCCG GGTCTCCCAT CCCGAGGCCA 120
 GCGTTCCTGT GCAGAGCCCC ATCCACTGGT TCTTGCCCTG AGCCACATAT GTCTGTNCCA 180
 TGGGCTGAGT GCCACGACAG GCCCGTGTGA CAGCTGCTGC CCACGCATNT NGAAGCTAGG 240
 TGGGACTCAT TCCTAATTCT GCCGTTGTAA TGAGACTTGA TTAACAACCC GCCACTTTTT 300
 TGCCAAA 306

SEQ ID NO:1016

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01154

SEQUENCE DESCRIPTION:

GATCAACAAG AAATGTTATG AAATGGCCTC CCACCTTCGG CGTCCCAGT ACTGACCTCG 60
 TCTGTCCCTT CCCCTTCACC GCTCCCACA GCTTGCACC CTTTCCTCC CCATACACAC 120
 ACAAAACATT TTATTTTTT GGCATTACC CCATACCCCT TATTGCTGCC AAAACCACAT 180
 GGGCTGGGGG CCAGGGCTGG ATGGACAGAC ACCTCCCNNT ACCNATATCC CTCCCGTGTG 240
 TGGTTGGAAA ACTTTTGTTT TTTGGGTTT TTTTTTCTG AATAAAAAAG ATTCTACTAA 300
 CAAA 304

SEQ ID NO:1017

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01155

SEQUENCE DESCRIPTION:

5 GATCTAAAGC AGGTNGTGTT GTTTACATGT TTCTACACAT TTCATCCTTT AAAAAGTTGT 60
 TGAGAGAGGT TGTATTTACC TTCCCAAGGT TGGAAAGCAG GGGAAATTCC CAGTGTCTTA 120
 GTTTCCACC AGAGGAATAT GTGTAAGTAG CAAAGTATTT GCTGCTTACA TATAGTGTGT 180
 ATGTATGTAT ATATGTAAAT NGTGTGTTAA AGAGCTGATA CTGATTTTCA TATGNCAATG 240
 TTAAGGCAAA GGCCTCCCTG CATTGANGA GCAGGTNTTC ATTTATATGT ATTTTNGGGA 300
 TAAA 304

SEQ ID NO:1018

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01156

SEQUENCE DESCRIPTION:

20 GATCAGAAAT NAAGTGCAGC AATATCATGA ATTCTNAGAA GNCTTTAAGG GAGCCAGTNA 60
 GTCATACAGT ATCCACAGTT GANTCACTTA AAGATGTCAG TATACGAACA TTATTCACAA 120
 TCCTTGGGCA ATCTCATTTT TTTCCCTTC TCCCTCCTC CCCTGCCCCC ATACATTTNT 180
 ATCCTTAANG TAGTTTTGGA GGGGCAGGAT GTACTTAACA TCTCANAAGC TAGATTGGGA 240
 ACATNTCANT ATAAGACTGA GTTTAAATT ANGGTAAAA TGNCATCAGA ANANTTGGGN 300
 GGGN 304

SEQ ID NO:1019

SEQUENCE LENGTH:169

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01157

SEQUENCE DESCRIPTION:

35 GATCTAATAC TACTGTCAGT TTTAATGTGC ACTGTGTTTT ATACAGTATC TTTTTTGT 60
 CACTTNGGAA ATTTTACTA AAAATTGCAA AAAATAAAGT ATTGTGCAA GATGTAAGGN 120
 TTTTGANAC TTGNNGTGCA TTAATAANTA GACGATTAAN TCAAGGAAA 169

SEQ ID NO:1020

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01158

SEQUENCE DESCRIPTION:

45 GATCCTCTAC CACAGACATT AATAGCTGAG CAGGAGCCAC ATGGATTGAT TGTATCCACT 60
 CACCAATTGAC GATGGCATTG AGCGTANTAG CITATTCCA TCACTACGTG TTTTGGAGCT 120
 TGCTCTTACG TTTAAGAGG TGCCAGGGT ACATTTTGC ACTGAAATCT AAAGATGTTT 180
 TAAAAACAC TTTTCACAAA AATAGTCCTT TGTCAATACA TTATTTACTC ATGTGTTTGT 240
 ACATTTTGT ATGTAAATTT ATGAATGATT TTTTCAGTAA AAAATACATA TTCAAGAACC 300
 AAA 303

SEQ ID NO:1021

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01159

SEQUENCE DESCRIPTION:

GATCCTTNGG CTCAGAATCT CGAGAACCGC CTGCTCCTAA CAATTCAGCA AGTCAGGGGC 60
 TTCCTCTCTG TTAGTCCCCA AATCCTTACT TATTTTAAAA AGACTAGACC CTCTCTAAAG 120
 ACTGTTCAT TTTAACATGT CCTGATTCTG CATCCGTGGG TTTTGTGAAA GAGAGCTAGC 180
 TGGCGGTTAG AGCCTGGAAG AAGGAGGGAA GTGGCACCTC ACTAGCATT ATCACTTTT 240
 TCCTTCTCTT TTTAAAAATA AAACCAGACT CTGTTCTGAA AATAAAAAAC TTGAGACTTG 300
 AAA 303

SEQ ID NO:1022

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01160

SEQUENCE DESCRIPTION:

GATCTGNCCT ATCCGAGCTT GTTATTGGGG AGCCATAAGA GTCAGTTATC CAGAACACAG 60
 TTTTGATAA GCTTGTTTAT GATTCAGTAA TGCAGGTGAG AGTGTCTAGC AGTTCTTGGT 120
 AAGCTACTCT GGACATCTTT AAATTATTTA TCCTAATGGA TTCCATTCTG GTTTATGTAT 180
 AATCGTTTCA AGACTTTGGG AGTCTTTTAT GAACAAATGC TCATTGCACT ATATTATATG 240
 CAAATTGTNN NGCTGCTAGG TTTTCAAAAT TTGAATAATA AAGCCTTTTC ATGTTCTTTT 300
 AAA 303

SEQ ID NO:1023

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01161

SEQUENCE DESCRIPTION:

GATCAAAATC CTGTACAATA CTATAAATAT ATATTNATNT TTTCACAGTC ACCAAGTGTA 60
 TTGTAATGTA TACTTGAAAA ATGTTATAAC TTATGAAGTA AAGTTTCTNA TAGTAGTCTT 120
 TAAAAGATAT AAGACTTAAT ATGTTTTATT CAGCTTCTAT AAGTGTGACC AGTTTNNATA 180
 TTTATTTATG CTAATATTTT TAACAAGTCA TTTCAAAATA TGTGTATCTC AAATCCTCCC 240
 NAAAGTGTG TGGCCTTAAC TGTTCAGTAT TGCAATAAAA NATATATNTN NNTATGTGGT 300
 AAA 303

SEQ ID NO:1024

SEQUENCE LENGTH:302

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01162

SEQUENCE DESCRIPTION:

GATCTATGGA AAAGTGGGAA TGTAATGTAG GATTCTGTCA GAGCTCCTAC AGAGCACAGT 60
 TGCCTTTAGT TTCTTTTAAA GATGTAAAAA TATTGTATAA TACAGTTTTG TCCCTACACA 120
 ATTTGATTTG CCAAGCTTAG TGCATTATGA TACCTTTATT TATTTGTTTT GGGCAGTATT 180
 ACTATATATA TATAANCATA CAGTTACTGT TTTATATATT CTTAGGTCAT TCAAAGCCAT 240
 GTATGCTGTA AATGTGCTAG TCTTTAGAAT GACACATAAT AAATAACTGA CAAGATATTA 300
 AA 302

SEQ ID NO:1025
 SEQUENCE LENGTH:435
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01163

SEQUENCE DESCRIPTION:
 GATCGAGCCA TTGAAAGCTC ATTACCAGTA GGACATAATT TTTGGCTCTC CCTATTCACA 60
 ACCAGTGCAC AGTTTGACAC AGTGGCCTCA GGTTCACAGT GCACCATGTC ACTGTGCTAT 120
 CCTACGAAAT CATTGTGTTT TAAGTTGTGT TTATTCCTGG AGTGACATGC CACCCCGAAT 180
 GGCTCCTTT CACTGAGGAT GCTGTCCTCT GATTAGCTG CTGCCTCCAG CCTCTGGCTT 240
 GAGAACTTAC TAAAGGCACT TCCTTCCTGT TAAACCCCTG TTAAGTCTCC ATAAATTTGG 300
 TGATTCTCTG CTAGGCCTAA GATTTTGAGT TAACATCTCT TGAAGCCAAA CTCCACCTTC 360
 TGTGCTTTTT TGCTTGGGGA TAATGGAGTT TTTCTTTTA GGAAACCAGT GCCAAGGAAT 420
 GNCAAAGGTN TTAAG 435

SEQ ID NO:1026
 SEQUENCE LENGTH:298
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01164

SEQUENCE DESCRIPTION:
 GATCCACATC CTCTACAGGT CGGGGACCAA AGGCTGATTC TTGGAGATTT AACACCCAC 60
 AGGCAATGGG TTTATAGACA TTATGTGAGT TTCCTGCTAT ATTAACATCA TCTTAGACTT 120
 TGCAAGCAGA GAGTCGTGGA ATCAAATCTG TGCTCTTTCA TTTGCTAAGT GTATGATGTC 180
 ACACAAGCTC CTTAACCTTC CATGCTCTCA TTNCTTCTC TGTGAAGTAG GTATAAGAAG 240
 TCCTATCTCA TAGGGATGCT GTGAGCATT AATAAAGGTA CACATGGAAA ACACCAAA 298

SEQ ID NO:1027
 SEQUENCE LENGTH:328
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01165

SEQUENCE DESCRIPTION:
 GATCCACTTT GTTGGTTGTT GTTGCAGAAG ACTGAACTGT TTTGGAATAN TTAACAATTA 60
 CAGAAACAGT CAAGTGTTTT CCAATGTGGT TGTCCGGTTT CTATGGCCTT GCTGTGTACT 120
 TTCCCTCTTT TTGACAGTAA ACTTCTGCCT ATGGCTTACA GTTGACATT TAATTTATTA 180
 GCGCTGCTCT GCACCCCTNC CTTGGGAGGG AGACTTCATG TGGTTTATTG CGAGTTTTTT 240
 TGTTTACTTT TCAGGGTTNG TACCTACAAA GGTTTTAATA ATAAAAANCA AAGNTTTTTT 300

NGGCNATTNG TCTTGTCTTN GTGGGAAA

328

SEQ ID NO:1028

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01167

SEQUENCE DESCRIPTION:

GATCTACAGT GCTGATGAGA AGAGAGCCCT TGCATCCTTT AACCAAGAAG AGAGACGAAA 60
 GAGAGAGAAC AAGATTCTGG CCAGTTTTCG AGAAATGGTT TACAGAAAAG CCAAAGGGAA 120
 GGATGACAAA TAAAGATTTT NTGATTGTCC AGAAGACATT TTAAACAACA AAAAAGAAAAG 180
 TCTGGGTTC ACACATACAT AGAAAAAGAT TATTATGTTC TGAGAAAGCT TTACAGTGCT 240
 ACTGTGCCTT CTATTTAATT CTTTCAGTCC TTCAATAAAA AGCTGCTTAT TGATAAA 297

SEQ ID NO:1029

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01168

SEQUENCE DESCRIPTION:

GATCCTGCTG AAATACATCT GCAGCTGACA ATGAGAGAAG AAACAGAAAA TGTCATGTGA 60
 TGTCTCTCCC CAAAGTCATC ATGGGTTTTG GATTGTGTTT GAATATTTT TNCTTTTTTC 120
 CTTTCCCTC CTTTATGACC TTTGGGACAT TGGGAATACC CAGCCAATC TCCACCATCA 180
 ATGTAACCTC ATGGACATTG CTGCTCTTGG TGGTGTTATC TAATTTTGT GATAGGGAAA 240
 CAAATCTTT TGAATAAAAA TAAATAACAA AACAATAAAA GTTTATTGAG CCACAAA 297

SEQ ID NO:1030

SEQUENCE LENGTH:296

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01169

SEQUENCE DESCRIPTION:

GATCCAGAAC ATGGGAAGTT AGGGAAAATG TGTGATTTG TGTGTTGAAT TACTGTCAGA 60
 ATTACATACA CAATTACAAC AAACTTTTT TAAAAGACAT TTCATTGTAC TGCAAAAATC 120
 TGAATATTTA TATTTCTNGT TTTTTCTTT ATATGTTTTG CATTTTANTA TGTTGAGCCA 180
 CTGGAAAATT TGTAACAGNT TANTTTGTTA TNGGCGTTA ANTGTGTTGT CATTGNCTCC 240
 ATTGCTTTG TCCAGAGCCT ATTATTATGG AACCAATAAA NTTTAAATGGG GTCAAA 296

SEQ ID NO:1031

SEQUENCE LENGTH:294

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01170

SEQUENCE DESCRIPTION:

GATCCTAGTC CCCTGCCCTC TGGCACAGCT GCTTCCTGCA AGANAGCAAG TTTTGGTCT 60

CCCTGAGAAG CCATGTCCCT CGTNCCTGNT CTTGCCTGTC CCACCTGTGC CCTGCCCTCC 120
 AGCTTGTATT TAAGTCCCTG GGCTGCCCCC TTGGGGTGCC CCCNGCTCCC AGGTTCCCTC 180
 CTGGTGTNAT GTCAGGCATT TNGCAAGGAA AAGCCACTTG GGGAAAGATG GAAAAGGACA 240
 AAAAAAATTA ATAAATTTC ATTGGCCCTC GGGTGAGCTG AGGGTTTTTG CAAA 294

SEQ ID NO:1032

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01171

SEQUENCE DESCRIPTION:

GATCTTCAAG AAGTGAAAGA GACCGAAAAT CAGACAGGAA AGACAAAAGG CGTTAATGGA 60
 AGAAGCCAGG CTTTCTTAGC CATTCTTTGC AGCAGAAGAT TTCTTGATAA AAAAGGATTA 120
 CCTTTCCTTG TAAAGAGGAT GCTGCCTTAA GANTTGCATG TNGTAAAANN NCTTTTGGGA 180
 AAATACAGAC TGTTTGTTTA CCAGACATTC TNGTACTGNT NGCATAATNN GGTAAGAGTT 240
 ATTNATCAAA ATNATGTGAG GTTCCAAAAT ATGTAAAANT GATATNATAA AAN 293

SEQ ID NO:1033

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01172

SEQUENCE DESCRIPTION:

GATCAGCGGT TCTTTTGGCA GCAAAGCCTG CATCTGTGTT GACTTGCAAG ATTTTGC GTT 60
 TATTCAGGCA AAAACTGGTC AAAATGGTTA CTACATGATT TGTTCACAGA GGTTCGAAAC 120
 ATTCAGTGAA ACTTTTAAA ACTTTGATTG CATGATGTAT TTTTTTTTNA GAAAGTTATT 180
 GTTTGAGAAT AATGTCTTTT TATACCAGGA AAATAGTTAT CCNGAATGAC GTTGAAAAC 240
 CCCCTCCCC TTNATTTTNN TTAAATCANT ACATGTGAAA GTNNCCANGC AAA 293

SEQ ID NO:1034

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01173

SEQUENCE DESCRIPTION:

GATCCCAATT CCACATAAGC ACTTTTGGAA GAAAACAGCC AAAGTTGGCC TAAAATTGGC 60
 GCTGGAAATT GGNCTGGGAA AAATCTTGTG GTTATTCCT TAAAAAGGA ACAAACCTTT 120
 AGTATTTAAT TAGTTGATTT ATTTAATGTA ATTNCAAACA ATTAAATTAT GAATAATGCA 180
 ATGTACAGTA GAATCACGTT TTGATTTTAT TAACACTGAC CAAGTTTAAAC TCCATATGAN 240
 GTGTAAGCTT GATATCGTTT ATGATGTCTA TCAACTGTAC CAAAAGTAAA ACATTTAAAA 300
 NCANNAAA 308

SEQ ID NO:1035

SEQUENCE LENGTH:292

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01174

SEQUENCE DESCRIPTION:

5 GATCTCAAGT GACCCGCCTG TCTCGACCTC CCAAAGTGCT ATGATTACAG GCATGAGCCA 60
 CTGCACCCAG CCAAACATGA CTTTCCATC CAGAGTAAAT CCAACTAACA AGAATCCACC 120
 CTTGGAGTTC ATGTAAAAAT ACATGACACA GGGTGATGAA AGTGCTTTGA AACTAGATAC 180
 AGGCAGTGGT TCTATAGCAT GGTGAATGTA CTCAAGGCAA CTCCTTTACT TTAAAAATCGT 240
 10 TAATTTTATG CCATGTGAAT TGCATCTCAA TAAAAATTGT TTTCAATTTA AA 292

SEQ ID NO:1036

SEQUENCE LENGTH:363

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS01175

SEQUENCE DESCRIPTION:

20 GATCGGGAAC TCCTGCTTCT CCTTGCCTCG AAATGGACCC CAACTGCTCC TGCTCGCCTG 60
 TTGGCTCCTG TGCCTGTGCC GGCTCCTGCA AATGCAAAGA GTGCAAATGC ACCTCCTGCA 120
 AGAAGAGCTG CTGCTCCTGC TGCCCTGTGG GTGTGCAAGT GTGCCCAGGG CTGCATCTGC 180
 AAAGGGACGT CAGACAAGTG CAGCTGCTGT GCCTGATGCA GGACAGCTGT GCTCTCAGAT 240
 GTAAATAGAG CAACCTATAT AAACCTGGAT TTTTTTTTTT TTTTTTTTNN AAAANCCCTG 300
 25 NCCNNTTGT AAAATTTTTT TTTNNNTGAA ATANGNAANG GNAATAATN ATCNGGNNTN 360
 TTN 363

SEQ ID NO:1037

SEQUENCE LENGTH:288

SEQUENCE TYPE:nucleic acid

30 TOPOLOGY:linear

CLONE:HUMGS01176

SEQUENCE DESCRIPTION:

35 GATCTTGGAA AGCACTAGAA ACTAAACATC TTCACCAGGT GCTGAAGAAA AGTGTCTTCG 60
 TTTTAATTGC CAAGCAGGGA TGTGGACATT TGGATGGTGA CTTTCCTGGG TGGTTCCCCA 120
 TAGATTACCC ATTGCCTCTA ATGGTGTCTA CACCCGTCAT ACTACCAGCT GAGATGGTGG 180
 TGGGCATAAG GAGAATTGT GCCTATAACC CTTAGTGTGT TCTGGTTTTT TTTCTTTTAA 240
 TTTTAAATT GTCGTAAAAT ACTCATAAAA CATACTGTCT TCACCAA 288

40

SEQ ID NO:1038

SEQUENCE LENGTH:288

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS01177

SEQUENCE DESCRIPTION:

GATCACCTTG TAGTCTTTAA ATTCTTGGTC CCTGAGGCCA AGTCCACAAC TTGCCTTCTA 60
 GTCACCTGCC TGCCCGCAGT GGTGGTGGAT GTGTTAGCTG GTAGATTGG AATCAGTCAC 120
 50 CAGTCTTTCT GTACTGTCTT GGTTAGCTCT ATATAAGTAG GGGCAGCTTA GCCCTGAGGC 180
 CCAGAGACCT GCTGTCTTTT TTCTCCTTGA GGGAGGAAAT AAAACTGCGG AATACAATGT 240

55

CCTTCCATAG CATGGGAAGA AGAAAATAAA CATCTCCTTT CCAACAAA

288

SEQ ID NO:1039

SEQUENCE LENGTH:288

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01178

SEQUENCE DESCRIPTION:

GATCCACCCT CCTGTAAATA TGGAACAAAT ATCTGAATGA AATCCACCCT AGGAGACGGA 60
 GCAAACTAAA CTTGTGGTTT TNCATTTAAC TTTTGACTAC AGCATGGCCC CATGGCATCC 120
 ACACCAAGAG GGTGTTGTGA TGAGGTGCCG GTGTGCAAAG GGAACTTTAG TTTTCCACT 180
 GGTTCCTTATC TGCTAGCCTT TTACATACAT GTGTACTATA TTTGTTTATA GACTGTAGGT 240
 GGATATATAA TTTAAAAGCT TGATTTAATA AACATTTAAC CCCNTAAA 288

SEQ ID NO:1040

SEQUENCE LENGTH:287

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01179

SEQUENCE DESCRIPTION:

GATCTTCAAG TATTTCGNAC TTTCGAGTAC AGCTAATTGG ATAATCTCAA ACCCTTTAGT 60
 GAAAAATATCT TAAATGCATT GAGAATATTT CCTAATTACC TGTGTATGCT ACAGTACAGA 120
 CATTAAATTCT ATAAACATGT TCATAGGTCT TCCCCCTCGC CCCGNCCTGC TTCTAAGGGC 180
 ATTTCTGTGT TCTNTNAGT GAGTTCATGN ATGTTTACCG GTTCTGGCGN AANGTTTCTT 240
 GCATNCTGAG CATAAAAATA NTAAAACCNA CTGATANTTG CTTGAAA 287

SEQ ID NO:1041

SEQUENCE LENGTH:289

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01180

SEQUENCE DESCRIPTION:

GATCTGCACA CGCATAATAA TCAGCATTGA GGGCAACAAA ATGCCATTGT GACCTTGCCT 60
 GGAATGTGTC CCCATCTCTA CTCTAAGAAA TCGCAATGG ACTCTTTGGA GAAAGAAGAT 120
 ATTTTAAAAC ATTTTATAGT TGTCTGTAAA TGGTTCAGCG TGTATCAGAT GTTGTCTAG 180
 GACTCACATT TCTCTCAGTT ATATTTAAAA CCGTTGTGTA CTTTGTACAA NGGAATACTA 240
 GTCATACTTC TATAAACTTT NCACAATAAA ATTNTCATTC TGGGTAAA 289

SEQ ID NO:1042

SEQUENCE LENGTH:287

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01181

SEQUENCE DESCRIPTION:

GATCGACCA CTGCACTCCA GCCTGGGNAA CACAGTGAGA CCCTCTCTCA AAATAAATAC 60

AGNCAGGCAT AGTGGCTCAT GCCTGTAATC CCNGCATTTT GGGNGGTAGA GGTGGGTGAA 120
 TCACCTGAGG TCAGGAGTTC ANGCCCAGCC TGGCCAACAT GGCAGAAACC CATCTCTACT 180
 AANTATACAN AANTTAGCCA GGTGTGGTGG CCTGCACCTG TAATCCCAGC TACTCAGGAG 240
 GCTGAGGTAG CTTGANCCCN GGAGGCANAN NTTGCAGTTA NGCCAAN 287

SEQ ID NO:1043

SEQUENCE LENGTH:286

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01182

SEQUENCE DESCRIPTION:

GATCTCTCCT GGAGTATGAA GACCTCCAAG GACTCACTTT CCCTCCCTTC TGATGCCAGA 60
 GCAGACCAAG CTGTCACTCAT CCAGTCTCAT GCTGAAGTCT CCAGCTTCTC AAGCTTAGAA 120
 GAGTTTTTNG AAGAGTCACT TTCAGCTCAT GCAGCTCTCA CAAGTGTGAA GGGAGTGGAT 180
 TGGGGGTGTT TTCCTTGCCA TTTTCGAAAA GAAAAAAATT ACCTGGTGAT TGGTGAAAG 240
 ATACAACGT CAAAAATGCA TGATTGAAGC AATTAGGTT GGGAAA 286

SEQ ID NO:1044

SEQUENCE LENGTH:286

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01183

SEQUENCE DESCRIPTION:

GATCAATAAA TNATACCAA TATATGTTA CAGTATGATT TAAAGTCTGA TTCAGACCAG 60
 GGACTCTATT TTAAGTTCAA CTGAAATAAC ACTGGGTTTT AATTATATCA CAGGAAAAAA 120
 AAAGTGCAAT TAAGTATTGT NATCGTGGAC TTTATAAAAG CAAAGGAAAT TGAAAGTAAC 180
 TTTNGATTCT GTATCANGAA TCATATTNC ATACAGTCAT AACTGTCTTN CTGTGACCCT 240
 TTCACAGGGC ACTGTAGGAT GGATTAAAG TGGCAATTA CTGAAA 286

SEQ ID NO:1045

SEQUENCE LENGTH:439

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01184

SEQUENCE DESCRIPTION:

GATCATACCG GTAAAGCAGG AATNACAAAG CTTGCTTTTC TGGTATGTNC TAGGTGTATT 60
 GTGACTTTAA CTGTTATATT AATTGCCAAT ATAAGTAAAT ATAGATTATA TATGTATAGT 120
 GTTTCACAAA GCTTAGACCT TTACCTTCCA GCCACCCAC AGTGCTTGAT ATTTCAGAGT 180
 CAGTCATTGG TTATACATGT GTAGTTCCAA AGCACATAAG CTAGAAGAAG AAATATTCT 240
 NGGNGCACTA CCATCTGTTT TCAACATGAA ATGCCACACA CATAGANCTC CANGAGCATC 300
 ANTTNCATTG CACAGACTGA CTGTNGTTAA TTTNGTCACA GNGTCTATGG ACTGANTCTA 360
 ATGCTTCCNA AANTGTTGGT TTGTTTGCAN GTTTTCGANC CGTTGTTATG GCANGANGTT 420
 NGTTTAGTTT CNGNTTGTN 439

SEQ ID NO:1046

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01186

SEQUENCE DESCRIPTION:

GATCTGGAAA CAGTTGAAAA CGAGACAATA TAGCCGGAGA CGCCTTATAT GATGATGCAG 60
TATCGACTAC ATTAATGAAA GTAATGCCAA ATNCAACAAG AAAGCTGAAG ATTCTATGGG 120
AATACACAGC TGAATTAACA GATTTGGAAG AGAACANCTG NTAATCCTTC AGGACTGTTA 180
TAGAGTTNAG ATGGGTAAAT TCTCCTANAA ATCAAGTCTT TTGAATTTC AGAATCAGAN 240
TTAGAGCCNG CTCTACTAGA TTGNATAANT GNGGTCTAAC GGAAA 285

SEQ ID NO:1047

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01187

SEQUENCE DESCRIPTION:

GATCCGGGNG GACCCCTTTG CCCTTCCCTC GGCTCCCAGC CCTACAGACT TGCTGTGTGA 60
CCTCAGGCCA GTGTGCCGAC CTCTCTGGGC CTCAGTTTTC CCAGCTATGA AAACAGCTAT 120
CTCACAAAGT TGTGTGAAGC AGAAGAGAAA AGCTGGAGGA AGGCCGTGGG CCAATGGGAG 180
AGCTCTTGT ATTATTAATA TTGTTGCCGC TGTGTGTG TTGTTATTAA TTAATATTCA 240
TATTATTAT NTAATACTTA CATAAAGATT TTGTACCAGT GGAAA 285

SEQ ID NO:1048

SEQUENCE LENGTH:283

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01188

SEQUENCE DESCRIPTION:

GATCGAAGTG ACAAAGTGTG TTTTCANTCA CAGTGGAGGC TACATCAAGC AAGGGGAGGT 60
CCAGCCCTCT TGCAAGTGTG GTGAGAGGCT CTAAGTACAA AGACATGGGC ACCGGAGTAG 120
GTCCCGTGTA GCATGCGGGT GCTGTAGAGA AAATTCAGTG ACGTACATGG CTCTGGTTCT 180
GGACACAAAA TCTGTACTGG AGAGGAAATG ACTGCTGAAA TAAGGCGATT GTATGAATAT 240
TTAAATGCC TGGAACACTA AAGTAAAGTA ATGATATTTC AAA 283

SEQ ID NO:1049

SEQUENCE LENGTH:283

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01189

SEQUENCE DESCRIPTION:

GATCCTCGCA GCTTCCTNCG AGCGGGGTGT CGCAGTCTTG TGCACAGAGT AAACCTTNCT 60
AGCTGCCCCCT TTCTGTAATA GTGAAAGTTG GTATTTAACA TTTATNCATT TTTAAATAT 120
TTGGAAGGTC TGANCTTGTG AAAAGAAAGT GGTGNGCTG AGGTTGGAGG NAGCTGAATG 180
GAATCTNACG GTTGNAGTG GTGGAATG GAAGGATACC AGGAGGTATT TGGGAAGGCC 240

AATGGCGTGG CTCCTTTGAG GAAATAAAAC ACTAAGCATG AAA

283

SEQ ID NO:1050

SEQUENCE LENGTH:281

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01191

SEQUENCE DESCRIPTION:

GATCCTTTTC ATACCTNATT TGGAAATTGCT GGATTGTAAC TTTTGGNAGA AGAACAGATT 60
 AAACCTGTTA ATCCTGTCTT TTGCATGCCT GAAGAAGTGC TTCAAAGAGT GAATGTTTCA 120
 CCTGAGCTAG TGAGCTAGAT TCATTGAATT GAAAGTTGCA TAGTATAGTT TTGCCATTTT 180
 AACATTTCTG TATTNAAAGT GCTTATCGAA TCTAAAAGTG ACTACTGTNA ATATTNNGTA 240
 TATNGTGTNA AATTAATTNN ANTAATNAT ATAATTNTAA A 281

SEQ ID NO:1051

SEQUENCE LENGTH:226

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01192

SEQUENCE DESCRIPTION:

GATCAATGAC AGAGCCTTCT GGAGGACATT CCAAGACAGT ATACAGTCCT GTGGTCTCCT 60
 TGGAAATCCG TCTAGTTAAC ATTTCAAGGG CAATACCGTG TTGGTTTTGA CTGGATATTC 120
 ATATAAACTT TTTAAAGAGT TGAGTGATAG AGCTAACCTT TATCTGTAAG TTTTGAATTT 180
 ATATTGTTTC ATCCCATGTA CAAAACCATT TTNCTTACA AATAAA 226

SEQ ID NO:1052

SEQUENCE LENGTH:277

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01193

SEQUENCE DESCRIPTION:

GATCACAGCA TAAAAGAATC ATAAGATAAA ACATCAAAC ACTCCAGCAAC CTGAGAAGCA 60
 CAGAGTGTTA AAGCCTCCAC CGTGTGAGAA ACTAAATTAG GGTAAGTAGC TATTGAGTAT 120
 ATTGAGTACC TTCAAAGCAC TCAACTGACA GGTTTACAG ACTGGAAATT ATAATACTTA 180
 TGACATTTCT ACCTTTTATA TAACCAATAA TCTACCATAG AATGTAGTAT TTTTANAGCT 240
 ATTAGCANGC AATATATTAN NNTANTANTG NATTAAG 277

SEQ ID NO:1053

SEQUENCE LENGTH:277

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01194

SEQUENCE DESCRIPTION:

GATCCAACCC GAATAAGATT AGAAGCTTTC CATCAGTAAA AGGATGTTTT CTTTTTTCAC 60
 ACAGTAAAAA TTCTTATCAT TCAAGGATAT TGGAACCACA GGAATTTTG GATAAAAAAC 120

ATTATTTGCA AATTAATGCG CATAGGCCAT CTTACTTTTA TTGCAAAATG GCATGTGCTG 180
 CCATCTATTA TTCATTTTAA AATGGTCATT TCTTATTCAG TGAGTGCTTT AGTGTTTTAA 240
 ACTATATGGA TAAGAATGCA GGTAGGATAA TATTCTN 277

SEQ ID NO:1054

SEQUENCE LENGTH:283

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01195

SEQUENCE DESCRIPTION:

GATCCTGAGG ATTACAGCTG TGGAATTTTT GTCCATGCTT CAAATAATTT TGAAAGAAAT 60
 TTTCCCATAT NAAAAAGGA GAGAACTN GCATCTGTTG AAATTTGGAA NTTCTGAAAT 120
 NATAGTATTT TAAAAATTG CACTGAAGTG TATACACATA AAGCAGGTCT TTTATCCAGT 180
 GAACAGGATG TTTTGCTTTA GCAGCAGTGA CATAAANTTC CATGTTAGAT AAGCATNTGT 240
 TNACTTACCT NGTTATTTAA TATTNTTGG AAAAGCAGTG AAA 283

SEQ ID NO:1055

SEQUENCE LENGTH:277

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01196

SEQUENCE DESCRIPTION:

GATCTGTGTA TGCTGTTGGG TCGGAGTGCC AGTNACTGCT TTGGAAGTCT GNGTTCTGGG 60
 GCTGCAGAAT GACAAACGTG TCATGGGATT AAAACCAATC AACTGTGAAT TGTGAAATTG 120
 AAGCTACTCT TTCGGTTTTA TTTCTTTAG CATATTGAGT ATAGAAATCT GAAACTTATT 180
 TAAAAATTTAT ACTGCTTTTG TTGATGGCTC ATTTTGGCTG TGTATCCTCA CTTATGTACT 240
 GATTTCGTGAT AAAGGCTTGA CATTATTATA ACANAAA 277

SEQ ID NO:1056

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01197

SEQUENCE DESCRIPTION:

GATCGACCTT NTCTGTTTTN TTTGTTTTN NTTCTNTTT CCTGGCCATG AGGACAAAAA 60
 TTA CTGAGTG GCCCTTAAAG AGGGAAGTTT GTTTCAGCT GTN 103

SEQ ID NO:1057

SEQUENCE LENGTH:291

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01198

SEQUENCE DESCRIPTION:

GATCGACCAC ATCTGGATG CCCTGTAGCC CCTGCCCGCA TCCTCCAGGG GGGCCAGGGT 60
 GCCTGCATT TNCTGTGGCA GGCAGATTGG GTGGTAGTGG GAGGTTGTGC ATGGAGGCCA 120

GTNAAAGCTG ACATCTGTAA AAGGCCTTCA AGGAAGAGAA ACCAGGCCCT GCGTCAGGCA 180
 GTGTGAGTTT GCCGTTTGTG CTAACTTTC TTTTTTTTTT TTAAAAAAN GGAAANNNTT 240
 AAAAAANCTC CCTTTAAAC CAAANCATNT TTGNNTTNN NCCAAGGGAA A 291

SEQ ID NO:1058

SEQUENCE LENGTH:276

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01199

SEQUENCE DESCRIPTION:

GATCCCGCTC TGTNTTTC AGGTTTGTG TATTCTNATT ACATTATCGA CTAGTCTGAA 60
 GCAGAGCTGA TATCTCTTA CCTGGGAGT CAGCTTCACC AGCCACAGCT GCTGAAAGAA 120
 TAGCTTGGAG ATTCACCCA CTGCATTCT GTNGCTCAA CTTTTGACC TTTGTGCTAT 180
 TTGAGAAATC TTTGAAATGC TGAAGGTATG ATTCTCCTC AGGGGGAACA TGCTTTGGA 240
 AAAACGCCCA CTTAATAAAA TGTATTCNT TTCAA 276

SEQ ID NO:1059

SEQUENCE LENGTH:276

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01200

SEQUENCE DESCRIPTION:

GATCTGTATA TGGTAAACAG GGGTTTAACC ACATGTGGT AACATGGATT AATGTGGAN 60
 TTTGGCTCA AGAACACAAC CTTAGGACCT TGGNCCCAA AAGCTGCTG TGAAATGAGA 120
 GGNCCCAATT TAAGAAGACC CTTATGGAGA CCTGAGGCTG CAGAACTGG TAGGTTTCAT 180
 CAGGTGGTTA AAGTCGTCAA AGTTGTAAGT GACTAACCA GATTATTTCA TTTTAAACC 240
 ACAGAATAAA AATGACACCT GAGCTTCTCT NTNAA 276

SEQ ID NO:1060

SEQUENCE LENGTH:276

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01201

SEQUENCE DESCRIPTION:

GATCTAGTTC CCCTGGAAAA GCTGCTGTAT TTTAATTT TAATGGAATG TAGCTTTNN 60
 AATCCTGTCA CTGGCATCAA CAAAAGGAAT TATACCATGA GACCTATAG CTGACTTAA 120
 AAGCCATTCA GTTCAGCTAT TGGGAGTTCA TGATGAATTA GCATATGCCA GAAAGGTTGC 180
 TAACCTTAAC ATCTGAGAGC AGTAACACTG ATTTTATCTG CTGTATGAGA CTTGTGCAT 240
 TTTACTTTGA AATAAAGATT TTTTCCACA CTGAAA 276

SEQ ID NO:1061

SEQUENCE LENGTH:276

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01202

SEQUENCE DESCRIPTION:

GATCCTGTTT CTNGCTCTGA GTNCTAGCTA GCCAGCTGTN TTCACACTGT AAACATTCAT 60
 CAAGGTGTAC ATTTGGTGCA CTTTCTGTG TCATACCACA ATAAAAAAAA NCCTATCATC 120
 5 TTACAAAAC AAGACACCCA AGTCCAGGCC CAAGGAGTAA GTACAAATAT TCCTGTTTCT 180
 GANCCATTAC TGTAAATTGGC TCTNAAGNCT TGAGGTANCC TTATAGGTTA CTCATAGGGC 240
 ATATACAAAT AAACNGTTT GTTTTCTTTT TNCAAA 276

SEQ ID NO:1062

SEQUENCE LENGTH:275

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01203

SEQUENCE DESCRIPTION:

GATCTTCAAC GGATACTAGA AAATGAAAA GACTTGGAAG AAGCTGAGGA ATATAAGAA 60
 GCACGTTTAG TACTGGATTG AGTGAAGTTA GAAGCCTGAA ACTTTTCTCG TATGGGGTGG 120
 TTTTTCATT AAATCCTGGG GTCCATTTTA CAATCCATTA TTTTGGACCA CTGCTATGTG 180
 20 TTCAAGTAGT ATGAGAATGT GATTGTTTT ATCTGGTTAC ATATATATT CTTTGTCTAA 240
 TTTAATATGT CAAATAAATG AGTTCATCTA ATAAA 275

SEQ ID NO:1063

SEQUENCE LENGTH:274

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01204

SEQUENCE DESCRIPTION:

GATCTCACCT CTTCTCAGG ATGGGGAGCT CACTCCGAGA ACAGGAGAAA TCAACATTGC 60
 30 AGTAACAAGG TAGAATGGTT TTGAAGAAGA AAAAACCTGC TTTCTGACTG ATTTTGCCCT 120
 GAAGGAAAA AGAAGCTATT TTTGTGCATC ATTTACCAAT CATGCCACAC ANGCATTTAT 180
 TTTTAGTACA TTTTATTTT TCATAAAATT GCTAATGCCA AAGCTTTGTA TTAAGAAGAA 240
 TANATANTAN AATAAAAAGT CTGTGCTGTT GAAA 274

SEQ ID NO:1064

SEQUENCE LENGTH:274

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01205

SEQUENCE DESCRIPTION:

GATCCAAGTT CCTAGACCTC ATGGCTGTCC CCTCCCACCA GTCACCTCCA CTGCACAACT 60
 CGGGCGGGGG TGTGACACCT CTCCCCACC NCCGACTCCG TGGTTTCCGT ATCGTCAACC 120
 45 CTTACAGCCG CGACCCGGGA GGGGTCTGGC CTACACTGGT CTTCCCTTC CCATCAATC 180
 TTTCTGCTG ACAATGTAGC AACCCAGGCC CCCCACCCAC GGTCTCTCCC TTTTCTCT 240
 CCCTGACAAT AAAGTCTGAA TTTGTTCTGC NAAA 274

SEQ ID NO:1065

SEQUENCE LENGTH:269

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01207

SEQUENCE DESCRIPTION:

GATCTATCCA TCCAATGTTG TCATTATATT TGA CTGTGGT TCAACAGTAT TCGGTTGTCA 60
 GACTAGGAAA GTTAAACGAA CAAATGGTT TTAGTTTTGC TGAAGACTGG CCTTATTAAT 120
 GGACAGCTTT CCTAACAAGA GATTATTAAC TTTTATCAGG TGTTAACATC TGTTCAGGA 180
 ACATGGCAGT ATGTTTACAT GTCAGAAGTT TTGTTTAATT CTATGGTATT TCTAAATTGA 240
 CTTGTTTAAA TAAATTCAGC AAATGGAAA 269

SEQ ID NO:1066

SEQUENCE LENGTH:269

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01208

SEQUENCE DESCRIPTION:

GATCTGGTTG GCATTTTCTC CCTGATGATG GGAGCGTCAT TCTTTTGTCT TCATGGTTAC 60
 TTGTGTGATA TAACATACAT CTGTNAAAGA AAATCACTTC TTTCTAGGGG AGGGAGGTAG 120
 AAAAGTATCT TTCAAACCTG GTTTTNAAGT TTGTNCTTG TCTTAACTTT GTGTNGGCTC 180
 TAACTNAAAC ATGCTGATAT GTGTTTNCAN GANTTTTGGT TTAAGGANGT ATTGTATGGA 240
 NGTCCACANA TTGGNAGGTN GTTCATCTN 269

SEQ ID NO:1067

SEQUENCE LENGTH:269

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01209

SEQUENCE DESCRIPTION:

GATCGATTAA GGAAGGTGGT TATGGCTGGG TGGTTCAGGG GTTTTTTTGG GTTTNTTTTT 60
 TTTTTTCTTT GTCTTTTNA CTAAGCTG TTTAAGTTGA AGCATTCTNA GATGTTTGGG 120
 GGGAAACATC CTCTNAAAAT GGGNCCCTGT GCTTGCNTTC TGGGGAGGCG GTCCTGAGCA 180
 GGTGANTCAT ANGGCATTGA TGCATATGTN ATATGNNGAC TGNACCCACC TTTCCCCCN 240
 AGCCTTTGCC TCTGGGTTG TTGTNCTGN 269

SEQ ID NO:1068

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01210

SEQUENCE DESCRIPTION:

GATCCTCTTT GTTTGTNCAA AGGACCAGTT TTCCTAGGCC AAAGAAGTCT CTNCCCCATG 60
 TAAGNCCTAT GCCTTNAAT ATCATGCACC ATGACCCACA GCCATCTGGT TATGTCTTAT 120
 TTTTTCTTA AAAGATAATG TTTATNNTTA AAAAGGAAG ANGGAGCAAG TGAAGTTTCA 180
 TTCTGCTCCA GCGGTGGGGG ANGCGCTGA ATCCACCTGN TTCTCCTTTT GCAACCGNCA 240
 GCANGCAGCT TTTCTCCGGG CNNCAGGN 268

SEQ ID NO:1069

SEQUENCE LENGTH:267

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01211

SEQUENCE DESCRIPTION:

GATCTAGAAG GTGAAGAATT TTTTATGTA TATATAGACA TATCTATATA AATNGTCTGG 60
 CTGAGGCAGG GCCTTCANCT ATCATTGGT TAATAAATAC ATTTNAGTAT TTNCATTTC 120
 TACTGCCTGC AGAGTTTCAG GTGCTTGNG TGTGAAAGTC CTGTAGATGT GTGCAAATTT 180
 AACGAAATGA AATTGTATGT GTAAAANTGT ACGATTTTCC ACTGTGCAAC TGTAATNAT 240
 AAATAANANA TATTTTNTCT ATTCAAA 267

SEQ ID NO:1070

SEQUENCE LENGTH:266

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01212

SEQUENCE DESCRIPTION:

GATCCTAGTG ATTCAGCCC ATGCATTAAG CAGGAAACAA TAATAAATT GTAGAATTCA 60
 TATTTTCTA AAGGGAACCT AAAAAGTCT GCTACATGTT ATGTACAAA CTGGTTTATG 120
 CCACATGGAC AGAGAATCAC ANGTTGGTT TTGGTACTTT NNGTTCCTCT TTGTATTCAG 180
 TTGTATAGAC CTNCAAAAT CAGAATGAGA NGAAAGCTGT CTGTATCAA CCATTTANGC 240
 ANTAATTGTT ATATNTNANA GCTAAA 266

SEQ ID NO:1071

SEQUENCE LENGTH:266

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01213

SEQUENCE DESCRIPTION:

GATCCAAGTT ATACATGAAT AGAAAAAGAT GGTGTTAAAT TTGTGTGTAG GCTGGGAATT 60
 CTTGCTGAAG GAATTGGAGA AAACCTGTTG CTGCAAAATT TTACATGTC CAGATGGAAA 120
 GGGAAAGTCTA AGCNCCTTTT AAAACAATTT TTTTGTAT TTAATTAAGC AATTNCAGTT 180
 ATCTGGGATT TTTGGGTCAG AATTTTAAAT TCTGTTTGAT TCTCCATATT CCAGTNAATA 240
 AAATACAAA GCATTGTNTT TTAAA 266

SEQ ID NO:1072

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01214

SEQUENCE DESCRIPTION:

GATCTTCAAT TCCTTGAGTC TGAGCTTGTG GGTGGAATTC TAAATTTGTA TCATAATCTG 60
 TCTTTTGTA AACATTTTGA AAATATGTAT ATATAATATT GTATATGCAA ATTGTGTTGT 120

TTCACTTGTA AAGGGAAAAG GCTTATTTN CTTTATATTT CTGATAACTT GTTTTGCATA 180
 TGACCAGCAC TGAAGGAAAG GCATGTGTAG CTGCAACAC TGTGTGCTTT TTTGTGAAAT 240
 GNAAATAAAA GTATTAAAT ACAA 265

5
 SEQ ID NO:1073

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

10
 TOPOLOGY:linear

CLONE:HUMGS01215

SEQUENCE DESCRIPTION:

15
 GATCGTGCCA TTGCACTCCA GCCTGGGTGA CAAGAGCAAA ACTCCATCCC CCCTGCCCAA 60
 AAAAAAATN AATTTTCACA GAAAATTAAT AGCATAGGTA TTATNATCCT CATTTTACAG 120
 AGAAAGAAAC AGCCATAGAG AAAAATGACT TGCTCACAAC ACAGGCAACT TTGACTCTAG 180
 AGATANCACT TATTACAGTA AAATCCCTCT TCAGNCACAA AATACATGAT TATCTTAAAC 240
 ACATTCTTAA TAAAANTTTA NCAAA 265

20
 SEQ ID NO:1074

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01216

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 SEQUENCE DESCRIPTION:

30
 GATCAAAGAT TGTAATAATA ATTTTGTAAG TTGTAAGCAA AAAGTTATTT TTATATTATA 60
 TACAGTCTAA TTGTTTCATCC TAATTGTTCC TGTTCATC TAGTCAGAGA TTCAGTAAAG 120
 NCCTTGGAAC AATATTGAAT TCTCTTAGCT TGTGTGTGTT TCTTTAATAT TTGAACTCAA 180
 GTGGGATTAG AAGACTATNA NNNTACATGT ATGTTTCAGG ATATTTGACC TGTCATTAAT 240
 AAAACAAAC AGTTTACAG TGCCTAAA 268

35
 SEQ ID NO:1075

SEQUENCE LENGTH:305

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01217

SEQUENCE DESCRIPTION:

40
 GATCTCCATG TAGTCCATAT GAAACCTGCA GAGTGATTTT CCAGAGTGCT CGATACTGTT 60
 AATTACATCT CCATTAGGGC TGAAAAGAAT GACCTACGTT TCTGTATACA GCTGTGTTGC 120
 TTTTGATGTT GTGTTACTGT ACACAGAAGT GTGTGCACTG AGGCTCTGCG TGTGGTCCGT 180
 ATGGAAAGCC TGGTAGCCCT GCGAGTTAAG TACTGCTTCC ATTCATTGTT TACGCTGGAA 240
 TTTTCTCCC CATGGAATGT AAGTAAACT TAAGTGTGTTG TCATCAATAA ATGGTAATTC 300
 CTAAT 305

45
 SEQ ID NO:1076

SEQUENCE LENGTH:263

SEQUENCE TYPE:nucleic acid

50
 TOPOLOGY:linear

CLONE:HUMGS01218

SEQUENCE DESCRIPTION:

GATCCTGTAA GTTGTCAATCA AAATATGATT TAGAAATATT GGCCAAGGTG TTGCTTTAAC 60
 TGAGGAGAAA AGAAAGCACA CTGCCTAAAT GTGTAAAAGA AAAATGCAGA GGTATTATAA 120
 ATGTAAAGAA GTAACAATCT TTGGATTTGT CTATACATAT ATATATATAT ATATNGNTTT 180
 GCCTTAATAT ACCCCCTTTT TTGTTTGTGA CTTTCAACTG TAATCAGTTA ATAAAGTATT 240
 TATTCTCTGC ATTCAAGTTC AAA 263

SEQ ID NO:1077

SEQUENCE LENGTH:354

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01219

SEQUENCE DESCRIPTION:

GATCGACAGC AAGCAATCCT TAAGGGACTT TCAGAACTGA GACAGGGCCT TCTCCAGAAG 60
 CAAAAGGAGT TGGAAAGTAG TCTCCTGCCT TTAGCTGAAA ATCAAGAAGA GAGTTTGGT 120
 TCTTCATTTT AAATGTAGAA AATCAAATCC TTCACATTG ATTTGTGTCT TCCAAATTAT 180
 AAAATGTGCT CACTGGCTCA ACTGTATTTT TCAAATAGCC TAGATTTACT TATTTTTTTA 240
 ANNGNNCATT AAAAAGTGT ATACTATGTA GTAAAATGCT GACTTGTNC TATACAATAA 300
 ANCAGATACT TCTTTTGTA AAGCTTAGTA GTAAACNCC ACCNNNNNNN NNTN 354

SEQ ID NO:1078

SEQUENCE LENGTH:260

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01220

SEQUENCE DESCRIPTION:

GATCGTGCCCT GTGAATAACC ACTGCACTCC AGCCTGGGCA ACATAGTAAG TAAGACCTTG 60
 TCTCTTAAAA AAAATACATT CTGAAGAAAG TTCTACTTAT GANTACATT TATTATAAC 120
 AAAGTGGTGA AAATTTTAGA CCAAAACATG TCTTCTGGG TTGTAGTGAT TAAAAATGG 180
 TTAAGAGAAT GTTCCTATA CAAGGCATAT GTTATTAANC ATGAAATTTA GGNTTAGTTT 240
 TCTCTTTGAA NNTCCTTTN 260

SEQ ID NO:1079

SEQUENCE LENGTH:260

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01221

SEQUENCE DESCRIPTION:

GATCCCGAGA CTTGTGTTCT CTTGGCTGAA NAACTNAGG TGCTCCCATC TGTNCGTGGC 60
 CCATGANCTG GGATGGTCCT CCAGCTGCCC ACAAGGTCCG CCCCTCTNTC TCTGCACCAC 120
 CTGTTTGCAT AAACACACTT TGCTACAATC TTGCTAGTNC GTTTTCTTAA AAGATAATCT 180
 ATTTACTGTA AAAATAAATT GGACTTTGCA AAAGCTTTTA GAAGGAAAAG AAAGAGGATT 240
 AAAGAGAATT GCTGGTGAAT 260

SEQ ID NO:1080

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01222

SEQUENCE DESCRIPTION:

GATCCAAATT TCCTTTTGAT ATTATTTTAC TTCTGCCTGA AACATTTTCT TTAACATTTT 60
 TTATAGTGTT GTTTACTGG TGATGATTC TTTCAGGTTT TAAGTGCCTG AACAAAATCT 120
 TTATTTACAC TACATCTTGA AAGATAGTTT CTCTGAGTCT ACAATTCCCA GCTGACAATG 180
 TTTATCTTCC AGTACTTTAA AGATGTTGCT TCATTATCTG CTAATTTNNT TTGTTTCCAA 240
 TAAAATGTTT GCTGGCAAA 259

SEQ ID NO:1081

SEQUENCE LENGTH:316

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01223

SEQUENCE DESCRIPTION:

GATCTGCGGT GAAGCCAAGC CGCAAGGTTA CAAGGCATCC TCACCAGGGA TACCCGCCTG 60
 CTGCTCCCAG GTGGCCTGCG GCATNGCTAT GCTCAAGGAC CTGGAACCC ATGCTTCGAG 120
 ACAACGTGAC TTAAATGGGA GGGTGGGTGG GCCGCAGACA GGCTGGCAGG GCAGGTGCTG 180
 CGTGGGGCCC TCTCCAGCCC GTCCTACCCT GGGCTCACAT GGGGCCTGTG CCCACCCCTC 240
 TTGAGTGTCT TGGGGACAGC TCTTCCACC CCTGGAAGAT GGAAATAAAC CTGCGTGTGG 300
 GTGGAGTGTT AGGAAA 316

SEQ ID NO:1082

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01224

SEQUENCE DESCRIPTION:

GATCCAAATG GATTACCACT GTGCTACAGA CTTCTTATTA TAGAACAGCA TTCTATTCTA 60
 CATCAAAAAT AGTTTGTTGA AGTTAGTTTT GGTACCATC TAAATATTT TTAAATGTTT 120
 TTTACATAAA AATTATGTT GTGTTTTAAA ATCCTTAGGG GCTTTATCTA TTTTCTAAG 180
 TCAGTTAACT GTACTTCTAA AAAAAGTATT TTGTATCTAC TTTTGTAAC TCGTCAGAAT 240
 AAAATATATT GAANGCAAA 259

SEQ ID NO:1083

SEQUENCE LENGTH:258

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01225

SEQUENCE DESCRIPTION:

GATCGCTTCA CATNTATAAA AAAAATAANA ATACCCGGGC AAGCTTTCTT TGAAGNTGCT 60
 ACAGCATTA ATATCGAGAA TTTTGGGTGG GAGAGAGCAG TTCAATTTT TTTACCAGCT 120

GAAGTTCATT TATGATACAA AAGAGATGAA ATGGAAGTGG CAATATAAGG GGATGAGGAG 180
 GCATGCTGGC AACCCCTTCTT TTAAGATGTG CTCAATTTGT ATAANTGGTG TTTCATGNAA 240
 TAATCATCTT GGAGGAAA 258

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SEQ ID NO:1084
 SEQUENCE LENGTH:342
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS01226

SEQUENCE DESCRIPTION:

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GATCGCCGCC CAGGGTTTCA CGGTCGCAGC CATCTTGCTG ACGTCTGNCT GNCAGTCTA 60
 TGAAGTCTCG ACCCTAAGCC CAGGGTCTGG CCTTGAAAGC TCCGCAGAAA TGATTCCANA 120
 ACCCAGGGAG CAACCACTGG CCCTACCGTG GGACTTACTC CCTCCTCTCC TTGAGAGGC 180
 CCATGTGTCG CTGGGGAGGA AGTGACCNTT TGTGTAACG TAACCGAAAG TTTTTCAAA 240
 AATCCTAGAT GCTGTTGTTT GAATGTTACA TACTTCTATT NNGGCCACAT CTCCCNCTCA 300
 CTCCCNCTGCT TAATAAACTC TAAAAATCCA CTTGTATTTA AA 342

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SEQ ID NO:1085
 SEQUENCE LENGTH:260
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS01227

SEQUENCE DESCRIPTION:

30

GATCTAAGAA GANACTAGCC TTGTGGAGTA TATAGATGCT TTTCATTATA CACACAAAAA 60
 TCCCTGAGGG ACATTTTGAG GCATGAATAT AAAACATTTT TATTTTCAGTA ACTTTTCCCC 120
 CTGTGTAAGT TACTATGGTT TGTGGTACAA CTTTATTCTA TAGAATATTA AGTGGGAAGT 180
 GGTGAATTCT ACTTTTATG TTGGAGTGGG CCAATGTCTA TCAAGAGTGA CAAATAAAGT 240
 TAATGATGAT TCCAAATAAA 260

35

SEQ ID NO:1086
 SEQUENCE LENGTH:256
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS01228

SEQUENCE DESCRIPTION:

40

GATCCTTAAT GTTTTGATTN TTGTTTTCTG AAATTGGATT TTATTTTATT TTATCTTATA 60
 ATNNCAGTTC ATCTAAATTG TGTGTTCTGT ACATGTGATG TTGACTGTA CCATTGACTG 120
 TTATGGAAGT TCAGCGTTGT ATGCTCTCTCT CTACACTGTG GTGCACTTAA CTTGTGGNNT 180
 TTTTATACTA AAAATGTAGA NTAAAGACTA TTTTGAAGAT TTGANTAAAG TGNNGNNGTT 240
 TGCATTACAC CTCAAA 256

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SEQ ID NO:1087
 SEQUENCE LENGTH:254
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS01229

SEQUENCE DESCRIPTION:

GATCTTTAAA CTCTGGCTTC TTCCTCCTCA ATCTTGACAG AAAAAGGGTG CAGACGTCTG 60
 GTTCAAAGAG TTGGATATCA AACTGATGG TGCAGTTAAC TTCCAGGAGT TCCTCATTCT 120
 GGTGATAAAG ATGGGCGTGG CAGCCACAA AAAAAGCCAT GAAGAANGCC ACAAAGAGTA 180
 GCTGAGTTAC TGGGCCCAGA GGCTGGGCCC CTGGACATGT ACCTGCAGAN TAATAAAGTC 240
 ATCAATACCT CAAA 254

SEQ ID NO:1088

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01230

SEQUENCE DESCRIPTION:

GATCCATCCC ATTCACCCAG TGACTTCTTT TTGCCAGGC CGGGACTTTT TGCATCAGTN 60
 ACGTTAACCA GATGACTTTG CCTGTAACCA AACCTCATGC ATCCACGTTT GCGTCTGGGG 120
 AGGAATAAAA AGACATCGTT CCCGCTTCTN CGTTTTGTNA TTCCTACTGC CGCCATAGGA 180
 ATTATTTCGT TGGCTGANGC TTACCAGCAC CCCGAGANCA CATTTTGATN GANTCAGAGT 240
 AGAGGNCATG GCTGTNTTCT NAAAANGCCN CGCCATGNAA NTGCCAATCC CCTTTN 297

SEQ ID NO:1089

SEQUENCE LENGTH:253

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01231

SEQUENCE DESCRIPTION:

GATCGCATTT TTGTAAAAGA ACCATGTGTG TTTATATGTG TTTATATATA TACTTGTGTA 60
 TGCAAAGGTA AAAGTCTGAA AGGATATATG CTAAGTGTTC ACAATGATAA CCCCCAGGA 120
 ATGGGATTGG AGGGGAGGGG GCTTCTGTGT TTGTNATGTA TGCTGGGTGG GANNTTGTGC 180
 TTTTATTCT ATATTGTTG AATTTTTTTA CAGTATGTAT TATTTTTGTA ATAAAAATTT 240
 TAAAAAATTC AAA 253

SEQ ID NO:1090

SEQUENCE LENGTH:252

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01232

SEQUENCE DESCRIPTION:

GATCTGCCCTT GAAATTTAAA AATCTAAATA GCTCTTAGTT GAACAGGGGA GATATAAACA 60
 AAGTTTGCAA AATTCCTAAA ACACGATGAT AATAAACATC ATACATCAGA NTTTTGAGAT 120
 ATAATTAAG CAGTACTTAG AAGAAAATGT ATAGCCTTAA ATATTTAACA TCAGTAAAAAN 180
 TGANAGGNTG AAAATTGGGA TTAAATTCC CAAGTCAAAG AGCTAGAAAN NGANTTACAA 240
 AGCAAGNNGA AA 252

SEQ ID NO:1091

SEQUENCE LENGTH:251

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01233

SEQUENCE DESCRIPTION:

GATCTCATGG GCTTTCCTGG AGGAAAGTTT TTTTGTTCG TTTTTTTTA AGACTTGAAA 60
 CTTGTAAC TG AGATGCTGTA GTTTTTGCC ATCTGTAGTG ATGTAAAGAT TAAACCTGA 120
 GAGACTTTN CTTTGTAGA TTATGAGAAG NACTAGATGC TTAGGTTTC ATTTCCCTT 180
 AATTGCNATT CTTGTGCGCT NGTTGGGNGG GAACTGTTAT TTCCNCAAT AAAAGTAAG 240
 TCTTATCGAA A 251

SEQ ID NO:1092

SEQUENCE LENGTH:250

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01235

SEQUENCE DESCRIPTION:

GATCATTAAA ATCAACGTTA TCTAAGACAG CTGTATCACA TTTTGGGAT ACATCATGGT 60
 ACAGTCAGAA GCATATAAAA TTATGGTTCT GCTTGTCAAG CNCATACAGA ATCCAATACA 120
 TTTTGACAAA CTGCCCATTC CTGCAAGTTA ATGCCCTTTT TGAAGCTTCA TTTCTCTTG 180
 TAAAGTACAG ATAGGAATCA TTATTTGTG GAGTTGCTGT AAAGATTAA TAAAGGTGAA 240
 TGAAAATAAA 250

SEQ ID NO:1093

SEQUENCE LENGTH:248

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01236

SEQUENCE DESCRIPTION:

GATCCCAACA AAGATACAAG TGAAAACGCA GAAGGTCAAA GNGATGAGAA CAAGGACGAC 60
 TATACAATCC CAGATGAGTA TAGAATTGGA CCATATCAGC CCAATGTTCC TGTGGGTATA 120
 GACTATGTGA TACCTAAAC AGGGTTTAC TGTAAGCTGT GTTCACTCTT TTATACANN 180
 CNAAGAAGTT GCAAAGANTA CTCATTGCAG CAGCCTTCCT CATTATCAGA AATTAAAGAA 240
 ATTTCTGN 248

SEQ ID NO:1094

SEQUENCE LENGTH:248

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01237

SEQUENCE DESCRIPTION:

GATCACTGNC AAAGTGGGAG CACTAAGGGG TGGGTGGGGA AGTGAAATGT TAGGCGATGA 60
 ATTCCTGAGC ACCTTGTTTT TNTNCCAAGG TTCGTAGCTC CTCTNGCCC TTCCAAGCCT 120
 GTAACCTCGG AGGACTATCT TTGTCTTN ATCCTTTGTN TTGTTGAGT GGGNCAGCCC 180
 CAGAGGAACT GATAAGCAA TGGCAAGTTT TAAAGGAAG AGTGGAAAGN NCTGCAANTA 240

AAANCCN

248

SEQ ID NO:1095

SEQUENCE LENGTH:246

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01238

SEQUENCE DESCRIPTION:

GATCTCCATG CGGTCCCTGG AAGTACCCAT TGAAACATGC GTATTTGTGT ATAGCAGAAC 60
 TCTGAAATAA TATTCTGACA GCAGTTATCT CTGAGGAATT GGGTTATAGG TGATTTTCCC 120
 TTTCCGCATG ATAAATTTAT GTAATATTTG ACTGACTTGA CCGTAAGTAT GTTACTTGTA 180
 TAATAAAAGG AAAAAAGGTA CTTCTATTTT GAAAAATAA AAATAAAAGC CTTTGGGTTT 240
 TTGAAA 246

SEQ ID NO:1096

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01239

SEQUENCE DESCRIPTION:

GATCCTGTCA GGGNGTCCCC CATGCCTGGA AGAGGAGCTG GTGGCTGCCA GCCCTNGGGC 60
 CCGGCACAGG CTTGGNCCTT CCCCTTCCCT CAAGCCAGGG CTCCTCCTCC TGTCGTGGGC 120
 TCATTGTGAC CACTGGCCTC TCTACAGCAC GGCCTGTGGC CTGTTCAAGG CAGAACCACG 180
 ACCCTTGACT CCCGGGTNNN NNNGTGGCCA AGGATGCTGG AGCTGAATCA GACGCTGACA 240
 GTTCTTCAGG CATTTCTATT TCACAATCGA ATTGAACACA TTGGNCAAAT AAAGTTGAAA 300
 TTTTACCACN TGAAG 315

SEQ ID NO:1097

SEQUENCE LENGTH:245

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01240

SEQUENCE DESCRIPTION:

GATCCCGGGA GCCTTGCCGC ACTGCCCTGT GGGTGGCTTG GCGCTCGTAA TTGCTTCCTG 60
 TGAACGCCCTC CCAAGGACGA GCCCAGTGTA GTTGTGTGGC GTGAACCTCG CCCGTGTGTT 120
 CTCAAATTCC CCAGCTTGGG AAATAGCCCT TGGTGTGGGT TTTATCTCTG GTTTGTGTTT 180
 TCCGTGGTGG AATTGACCGA AAGCTCTATG TTTTCGTAA TAAAGGGCAA CTTAGCCAAG 240
 TTAAA 245

SEQ ID NO:1098

SEQUENCE LENGTH:245

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01241

SEQUENCE DESCRIPTION:

GATCTGCAGC AGCCGAAAAAT GCGTTNTGGT AAACCTGGCC TCAAATTCAT ACTACCATAA 60
 CTGTTTTTAT ATATTGCCAC TAATTTTGAC TGGATTAAAT AGCACTTTAT TGTACANCTA 120
 CAAAAAATAA TATATNCCTA GAATNGTNNC CAGTGTAATT CCTCTAATGT CCTGGTGCCT 180
 TTTCATATAT TTCCAGNATT TTNATACTAT ATNGGTATTT CCTTTGTATA AATNGATNGA 240
 TNAAN 245

SEQ ID NO:1099
 SEQUENCE LENGTH:251
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01242
 SEQUENCE DESCRIPTION:

GATCTTAGGC TTTTCACTTT TTTTGTITG TTTTGTITTT GAAAGAAAGA AAAAAATACA 60
 ATTAACAAGC CTCTTTTGTA AATGGGTTTC CTTTCTATGT ATAAATCGT GGTGGTCCCT 120
 TGTITTTTACA TGTTCATGCT GTGTAATTTT GAGATGTTAC TGAGATATGT TCTGAACATA 180
 ATGTGCATTT TTTNCTGTAC AGATGAAATG GGAGANTTTA ATAAAGAGTT TGCAGGTTTT 240
 TNCTTGTTAA A 251

SEQ ID NO:1100
 SEQUENCE LENGTH:247
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01243
 SEQUENCE DESCRIPTION:

GATCCAGCCC TGAGCATCAC CCAAGTGCCT GATGCCTCAG GTGACAGAAG GCAGGACGTT 60
 CCATGCCGAG GCTGCCCCCT CACCCAGAAG TCTGAGCCCA GCCTCAGGAG GGGCCAAGAA 120
 CCAGGGGGCC ATCAAAGCA TCGGGATTG GCATTGGTTC CAGATGAGCT TTAAAGCAA 180
 ACATAGCAGT TGTGGCCAT TTCTTGCACT CAGACCTGTG TAATATATGC TCCTGGAAAC 240
 CATCAAA 247

SEQ ID NO:1101
 SEQUENCE LENGTH:266
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01244
 SEQUENCE DESCRIPTION:

GATCTTCCCT AAAGAGCAGN GGACCANATA NGAAGAGGAA AATTTCTACC TTGAACCGTA 60
 TCTGAAAGAG GTTATTCGGG AAAGAAAAGA AAGAGAAGAA TGGGCAAAGA AGTAATCATG 120
 TAGTTGAAGT CTGTGGATGC AGCTGTTATG AAGATGGTTA AACTTGAANC AAACAATTTT 180
 AAGANTTATT TNGTCTGAAN GATGTTTTAC TTAAATAAA TGTCTCNTTG NAATGGCTGG 240
 AGGTTTTTGG GNGCCAAACC NTTAAA 266

SEQ ID NO:1102
 SEQUENCE LENGTH:256
 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01245

SEQUENCE DESCRIPTION:

GATCCCAGGT CCCAAGGAGT GACAGGGGCT TCCTCCCACC TTCTGTCCTT GTCCAGTNAT 60
GTAAATAATG TGCTTTTCCT CTCCCCGAGT CTTTTTTTTT AAAACCTACC GTGGTTCCTN 120
AGCTAACTGC ATTCCCTACC CAGGCAGAGA CTGTCCTATG CCTCGNGCTT CCAAACGAGA 180
CTCAGACCGC GACANAGCCA CCGTATTAT GGATTGCCAA ANTAANTAAN GCCCAAANCC 240
ATCGGTCTCT GTGAAA 256

SEQ ID NO:1103

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01246

SEQUENCE DESCRIPTION:

GATCCTGGTG CTGGACAACG CTGCCATTGT CTGCAACTTT GGCAGTGAGC TCAGCCTGGT 60
GTATGTGCCC TCTGTGCTGG AGAAGCTGGA CTGAGCGCAG GGCCTCCTTG CCCAGGCAGG 120
AGGCTGGGGT GCTGTGTGGG GGCCAATGCA CTGAACCTGG ACTTGGGGGA AAGAGCCGAG 180
TATCTCCAG CCGCTGCCTC CTGACTGTAA TAATATTAAT CTTTTTAAAT AAACCATAAA 240

SEQ ID NO:1104

SEQUENCE LENGTH:245

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01247

SEQUENCE DESCRIPTION:

GATCTGGGCA GTNAGATAGT GCTCTATGCC TAAGGTGAAG CCACACTAGG NTGAAGCCTC 60
ACTTCCCTGT TTAAGCAATG CAGTGCCTGC TGCCCGTGTG CANGAAGTA CAGCCATTCA 120
GATAAGTGGA ACTATTGAGT TACATAAAGA AAGTAGATT GCANTNNTCN GGCAGACGTT 180
TATACANAC CACGGTGCTT TTATACATTG TNCTNATTTT AATAAACTG ANGTTCATG 240
TGAAA 245

SEQ ID NO:1105

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01248

SEQUENCE DESCRIPTION:

GATCTGGCTT CCATTGGGCC CCCTCATTTT CCAAATGTTT AAATGTATTG GATTGGGATT 60
CTCAATGTAT AAGTTGCCTT ATCTGTAAAT GTCTATCTTC TGTCTCTTA ATTTGTATA 120
TCTGCTGTTT TGCTTTTGGA TACATTTTCT AATTAGAAGT CACATGATAA ATATAATCAG 180
TATAGTAATA ATACCATAAT GTGCACATAC TCAATAAATA AATGACTGCA TTGTTGTAAA 240

SEQ ID NO:1106

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01249

SEQUENCE DESCRIPTION:

GATCCATTN TCCNTGTAAC TNGGAGAAAG GCCAGTCCCT GTAACGGGGC AGCCCTCTCT 60
 TTCCCTCGGT CAGCTCGTGT NAATCCTGGN ACCTCTTCCG GTCGGCTCTG CCCGCTGTTT 120
 TGGGGTCGAC TGCCACGACT TTNNATTCAA GAAGCTTCCT CCAGGCGGNA GCGGCTATTT 180
 TCCCTAAATN AGAATTGTTA CATTGCAAAAT NGTTGAATAA AATATTNGC GGTCTTAA 240

SEQ ID NO:1107

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01250

SEQUENCE DESCRIPTION:

GATCTGAAGA AATGATGGAA TGGGGAGTGT AGAGAAATGA GAGTCTGTAT GATTCTGGAA 60
 CAGAGACATC AGAAGGAAAG ACTGGTGAAA AGATGTATCT TTGTATATTA ATAGCTGTAA 120
 TGTAAGTTCC TGATGCTTGA CTAATTGAGG TGTTAATTCT GACTTGAGAA TCTTTTTCAT 180
 GAATGATTTT AAAGAAAAAT TTGGATTITA AAGGTATTAA AATATTTTNG TTTTGTA 239

SEQ ID NO:1108

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01251

SEQUENCE DESCRIPTION:

GATCCGCAGT CGAAAAAGAA CAAGCCACAG AAACGGGCTC GTCGTGCCAG GACACAGCAG 60
 TGCTTTTCAA AAAATCAAAA CCAGAAGNTT TATCANCAGC AGGAAGNATG TGGGCTCTGT 120
 CAAGTTACCC GTCACCATCA AGCCACTGCT GTGGAAGAGT TTGNCAACAG GNCAGTGTC 180
 CAGCACANCT TCAGANGCAG CATCCGNGTG TCGTCCAACA GANGNCCTNG TCCGGTCAN 239

SEQ ID NO:1109

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01252

SEQUENCE DESCRIPTION:

GATCTATGTC CGGTGTGGGT TTTTGTCTC TCGAGTTTGT TCTCTAATAA AGGCCTTTTT 60
 TGTTTCAAA TACATACGCT TTTTACTGCA CAATTTTGT ATTGACCTTA TTTCAACTGA 120
 AGCGATTATT TCCAGCAGGT TTAATTTTCA CAATAAGATA TATTTNAATA GTTTTACCTT 180
 TCGCTAGAAT TTTGTATTGT TAAAACAGT AAATGAATAA NTTTGCTGAT GATTCAA 238

SEQ ID NO:1110

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01253

SEQUENCE DESCRIPTION:

5 GATCAATGAA ATGCACATAA ATNAACTGGT TCCATCAAGA CTGTGCACCC AGGCCTTACA 60
 GTCCAACCTT TTTCTGTGTC TGGCTAATAT TTAAACTAG AAAAATATT CCTAATCAAC 120
 ATGGAGTGA GAGTTTATTC ACTGTCTTAT CTGCAGAAAT TTGCTGTCAA TATATAACCC 180
 GCCTGCAGTG GAAAGTGTAT AGTGTTTTGT AATAAATGGC CTGATGCTAA TGTGTAAA 238

10 SEQ ID NO:1111

SEQUENCE LENGTH:237

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS01254

SEQUENCE DESCRIPTION:

20 GATCTACCGG GGGCTATTAG TTTCAATGTA GTGATGAACA CAACTATAT TTTGAGTTCT 60
 CTGCAGCAAG TGAATGTGG TATGAAAATA TCTGATATTT ACAAAGATGA TACTGCTAAG 120
 TCAGAGTCAC GTTTATTGCT AATATGATGG TGGAGTGTG TCTTCATTCA TAATGAAGGG 180
 AAATGTTATT TTTAATAGNG GTTAGTGAAA TAAAANTAAN CCTATTTTCT AANCAAA 237

SEQ ID NO:1112

SEQUENCE LENGTH:268

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01256

SEQUENCE DESCRIPTION:

30 GATCTGGAGC ATTTGAGCAA GTTTATAGAA GAACATGCCA CAAAAGTGA CAGGACCAAG 60
 GAAGAGCTTT GAAGGCCTGA GGTCTGCGNA AGGTGGGAGG AGGCAGACGC CCTGCGTGGC 120
 CCATGGTCGG GCGTCCACG CCGAGGCCGG CAACAAACGA CAGTATCTCG GATTCCTNTT 180
 TTTTTTTTTT AAATTTTNA AACTNNGGGG TTNCACTNCA NGNTCTGAAT ACTGANTANC 240
 CATGAATNCC TGAATAGTTT AGNCCAGN 268

35 SEQ ID NO:1113

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS01257

SEQUENCE DESCRIPTION:

45 GATCAGCGCT GAGGACGGNC TCAAGCATGA GTATTTCGCG NAGACCCGNN NCCCCATCGA 60
 CCCCTCCATG TTCCCCACGT GGGCCGCCAA GAGCGAGCAG CAGCGTGTGA AGCGGGGCAC 120
 CANCCCGAGG CCCCTGAGGG AGGCCTGGGC TACAGCCAGC TGGGTGACGA CGACCTGAAG 180
 NAGACGGGCT TCCACCTTAC CACCACGAAC CAGGGGCCCTC TNCNGCGGGN CCNGGN 236

SEQ ID NO:1114

SEQUENCE LENGTH:235

50 SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS01258

SEQUENCE DESCRIPTION:

GATCTGTTGA CTTCCCTGGG TAGGACACTG CCACCTCTGG GCTCAGGTCC TNATGCCTCC 60
 AAATGGCATC TAGAGTTTGA GCAGCCTTCT TGGCTGCAAG GCAGGCCTAG CCTGTGGCAG 120
 CGGGCTAGGG CCCGCAGAGC ATTTGGTGCC CCTCCATGTT GCAATGCAAA CACCTTCACC 180
 ACTGGGGCAG TGGGGAGAGA TGGCTATATT AATAAAATAA CGTGTGTCTT TCAA 235

SEQ ID NO:1115

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01259

SEQUENCE DESCRIPTION:

GATCATNATT TTNCTGCGT AGTTGACAGA CTTAGCATAT TAGTTTTNN TACTCCTACA 60
 AGTGTAATT GAAAAATCTT TATATAAAA AAGTAACTG TTATGAAGCT GCTATGTACT 120
 AATAATACTT TGCTTGCAA AGTGTGGN NTTNTTGTN GTTTGTTGT TTGTTGTTT 180
 TTGGTTTCATG AACAAACAGT TCTAGAAACC CATTTGAAA GNGGAAANTT ATTAN 235

SEQ ID NO:1116

SEQUENCE LENGTH:234

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01260

SEQUENCE DESCRIPTION:

GATCACAATT NGCTTCATGA ATCAAGGTGT GGAAATGGTT ATATATGGAT TGATTAGAN 60
 AATGGTTACC AGTACAGTCA AAAAAGAGAA AATGAAAAA ATACAATAA AAGGAAGAAA 120
 CACAACCTCA AAGATTTTC AGTGATGAGA ATCCACATTT GTATTCAAG ATAATGTAGT 180
 TTAACAAAAA AAAANGGNA AANCNTTGT GNAANTNCCN CCTTNCCTC NGGN 234

SEQ ID NO:1117

SEQUENCE LENGTH:234

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01261

SEQUENCE DESCRIPTION:

GATCCCCGN TCAGCNCNA AAGTGCTGGG ATACAGGCAT GAGCACCACG TCCGNCTAGA 60
 CTTACCTTT CTAAAGAAAT TGTTACTGG ATTTATAAGA AGTTAATTT TGAAATNAC 120
 ATATTTTGT NTGATAGAAA GAATGGAGCA AGTNGTGCCT ATTCCTCCA AGTCAGATAA 180
 GGTTTCTAAA ATAAATAAAT TTCTAGCATA TAAAGGCTAG AGATAAACTC NNNN 234

SEQ ID NO:1118

SEQUENCE LENGTH:233

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01262

SEQUENCE DESCRIPTION:

5 GATCACAGGT CTCCCTGTG AACTTTGGTT TCTTTCTATA AATGTGTGTG GTTTTCAGCG 60
 CTCAACTCCT GTCTTCAAAT GGTAGTAAGT NCTACTTCTA CTTCTGTCAT TCAGAACATT 120
 TTATGTCAAA TGATGTAATG CAGAAATNCT TGTGCATATT TGTAAGTGAA GGAAGCTTTT 180
 TAGATTTATT TNNGTTTTTA ATAAAATTCA GATTCCTATT CTAACTGGT AAA 233

10 SEQ ID NO:1119

SEQUENCE LENGTH:230

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01263

SEQUENCE DESCRIPTION:

15 GATCTNCTAT GCAGTCTGC CATGCNCTCCT GTTGGTCTCT CTGTGTTCTT TGTTACTTGG 60
 GTGCAATAGC AACTTCCCTA CCCCCTGCAT TCCATCTTTN ATGTTGTGTA AAGTTCTTCA 120
 CTTTTTNNCT TGAGGGCTGG GGGTTGGGGG AGTCAGCATG ATTATATTTN AATGTAGAAA 180
 20 ATGTGACATC TGGATATAAA ATGAAAATAA ATGTTAAATT AAATGGAAAA 230

SEQ ID NO:1120

SEQUENCE LENGTH:237

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01264

SEQUENCE DESCRIPTION:

30 GATCTAAGTT AGTCCAAAAG CTAAATGATT TAAAGTCAAG TTGTAATGCT AGGCATAAGC 60
 ACTCTATAAT ACATTAAATT ATAGGCCGAG CAATTAGGGA ATGTTTCTGA AACATTAAAC 120
 TTGTATNTAT GTCATAAAN TTCTAACACA AACTTAAAAA ATGTGTCTCA TACATATGCT 180
 GTACTAGGCT TCATCATGCA TTNGTAAATT TGTGTATGAT TTGCNNNTNT GNNNGNN 237

35 SEQ ID NO:1121

SEQUENCE LENGTH:234

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01265

SEQUENCE DESCRIPTION:

40 GATCTGGCCA GTTGTACTTT TAGCTCCCAG AGGGAGAGTT GGTGGTATTA TGAGTTGAGT 60
 AAAAACCATC CAGGGGAACT TGAGGGAGCA GTCTGTTGCC AGTAATGTTT CTTGTGTGCC 120
 ATTAACCAC CTCCAGATGA GTGGAGGAAC ATCACTTTT AATTTTTTAA TTGTATTTGG 180
 45 AATTGTTGCC GTGTACTAAG AACTTGACCT AAATAAAATC CCACAAAGTA TAAA 234

SEQ ID NO:1122

SEQUENCE LENGTH:232

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01266

SEQUENCE DESCRIPTION:

GATCCTCAGG ACGCAGGTCA CATTACCTG TGGGCAGAGG GACAGGTCAG ACACCCAGGC 60
 CCACCCAGAG GACCCCTCCAT GAACTGTGCT CCCAGCCTTC CCGGCAGGTC TGGGAGTAGG 120
 GAAGGGCTGA AGCCTTGTTT CCCTTGCAAG GGGGCCAGCC ATTGTCTCCC ACTTGGGGAG 180
 TTTCTTCCTG GCATCATGCC TTCTGAATAA ATGCCGATTT TATCCATGGA AA 232

SEQ ID NO:1123

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01267

SEQUENCE DESCRIPTION:

GATCAGGAGG CATCATTGAG GCCAGGAGCT CTGCCCGTAA CCTGTATCCC ACGTACTCTA 60
 TCTTCCATTG CTCGCCCTGC CCCCAGAGGC CAGGAGCTCT GCCCTTGACC TGTATTCCAC 120
 TTACTCCACC TTCCATTCTT CGCCCTGTCC CCACAGCCGA GTCCTGCATC AGCCCTTTAT 180
 CCTCACACGC TTTTCTACAA TGGCATTCAA TAAAGTGTAT ATGTTTCTGG TGA AAA 235

SEQ ID NO:1124

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01268

SEQUENCE DESCRIPTION:

GATCGATGCC ACGTTCGTAA GGTTCCTAAGT CTTTCTTGGC TCCTNATGTG GTCCTCTCTC 60
 TCGGAAGAAC TGCCAGCCA CGGGTTTNA ACCCACCTGT TGCTCCTNAG GTCGTCATA 120
 TATCAACAGT CACAAACCCA ATGGCAATAA AGGCACTGAC GATAGCTGGC GCGCGCNACG 180
 CCACACACCA TTTTNAGATG CCGTTGCAAT TAAATCTTGC CACACTGTCC TCCTGAAA 238

SEQ ID NO:1125

SEQUENCE LENGTH:231

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01269

SEQUENCE DESCRIPTION:

GATCCCTGGC TGGAAATGTCA TACCATTGAC CCATTTGAAG AGTTAAAGCT GGATTTGACT 60
 GCTCTATTCT ACCAGGAATA TTGTTAGGGT AGCCTTTTAC CAGTTTCTAA ACANTNGTAA 120
 TCATTTATTG ACTCAGCAAT TCCTCAGATA ACAGGTCAAA AGATGTACAG ATACATTCNN 180
 NAGTTTTCTT GCTATTAAAG GCACAAGAGT TTCCTTGAT TTTGACTGAA A 231

SEQ ID NO:1126

SEQUENCE LENGTH:230

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01270

SEQUENCE DESCRIPTION:

GATCTACAGT CATGCTTTAG CATGGCTATG GAGCTAATTA TCAAGCTTAA AGGGTAACTT 60
 TGGGAGGACT CCTCCCTTCA CTCCTAGTCT CCCTTGAAG AGCAGTCCAG GCTCAGGGAA 120
 GGGAAATGGAT AGGATGACAC AGTAAGTACA GAAACTGAAG CTGTCAATAG TGAAGGAAAA 180
 AGGGGAATTC TTCGTTGCTT TGGCATTNAC ACATAAGTAC TTTGATTAAA 230

SEQ ID NO:1127

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01272

SEQUENCE DESCRIPTION:

GATCCAAAAA TTATAGCATT CTTCTACCAC CACAGGGGCT CATATGACAT TAACAGACAA 60
 GACACTTTTC AGAAAGACAG GTTGTTCCTT TGGGCCACAT CTAAGAAATC TTTGTCTAGC 120
 CAAAAGCCAC AAATAATTTT TCATTTTTTG GCTTCTGGAA GATGTACAGT TAAATGTTAT 180
 ATTTGGGACT GTTATCTAAT TTGATTAAAT TGCACCTCTAC AATATGAAA 229

SEQ ID NO:1128

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01273

SEQUENCE DESCRIPTION:

GATCAGGGCT GAGGGTAAGG AAAAGAAGAG ACTAGGAAAG CTGGGCCCAA AACTGGAGAC 60
 TGTTTGTNTT TCCTGGAGAT GCAGAACTGG GCCCGTGGAG CAGCAGTTTC AGCATCAGGG 120
 CGGAAGCTTA AAGCAGCAGC GGGTGTGCCC AGGCACCCAG ATGATTCCTA TGGCACCAGC 180
 CAGGAAAAAT GGCAGCTCTT AAAGGAGAAA ATGTTTNAGC CCAGTCAAA 229

SEQ ID NO:1129

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01274

SEQUENCE DESCRIPTION:

GATCCTTACT ACTGGAATTA CCGGGTTAAA AGGAAATGCT TACCACTAAG ATGTCAGTAT 60
 TCTCCTCATG GATATTTTCA ATCTCAATGT TGCCAGTCTA ATAGTATAGT ATGTGGTTGC 120
 TTTACTGCTG TTCTCCCCAC CCCCGTGGAG TTGTGTCATT ATTTAATGA ATGTGAGCTC 180
 TTGACTTACT CTAGAATTCT AATACAGATA CTTTCTGCAC TAGTAAA 227

SEQ ID NO:1130

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01276

SEQUENCE DESCRIPTION:

GATCCGCTTG GTGACGGGCG TCTTCCCAGA TGCTGGCGTC ACCGCTAGAC CAAGGAGCCC 60

TCTGGTGGCC CTGTCCAGGC ATAACAGAAG GCTCGCACTC CTGTCTTCTG GTCACCTTCTC 120
 ACTATGTCCC CTCAGTCTCT ATCTCTGTAT GGCCTGGTTT TTCCTAGGCT ATGATTATTG 180
 AGTGAGGATT ATCATAATAT TGGAAATAAA AGTAATTGCT ACCCAAA 227

SEQ ID NO:1131

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01277

SEQUENCE DESCRIPTION:

GATCAGGATT GTCCTACAGT TGTAAATAAG ANTAGGTCCT GTTTATTTTG ACATCTNTTT 60
 ACAAATGCAT TGTATTAGGG TGTGAATATT CTGAACCATC CTCTTGTTA AAGTTTGGAA 120
 ATTTTATTG TTAATGTAA CATTTAATG GTTGTAATAA TTATTTGTAT AGATATGAAT 180
 ATAGTATTTN ATTTAAGANA ATAACTTTG CATTTTGTCA TNGTAAA 227

SEQ ID NO:1132

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01278

SEQUENCE DESCRIPTION:

GATCTGAAAT TTGTGTATNC TAAAGTAATT TNGTTTTATG TATTGGAAGT TCACTTAAAA 60
 ACTGGAATA TTTCTAGAA GGGTACCACA CAAAAGGAAT CATCTTTAAG CTGTTTAATT 120
 AACCTAATAA AATAATNTGA TGGGGAAGGC ATTCTAATTG TTTCTGATT TNNGAGTGGT 180
 TCCTGCTAAN TCATCANTAT CANTACAGCT TGATTTGATT TAAGAAA 227

SEQ ID NO:1133

SEQUENCE LENGTH:226

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01279

SEQUENCE DESCRIPTION:

GATCTTAAAT GTTATATTGA TAACCATGCT CAGCAATGAG CTATTAGATT CATTTTGGGA 60
 AATCTCCATA ATTTCAATTT GTAAACTTTG TTAAGACCTG TCTACATTGT TATATGTGTG 120
 TGACTTGAGT AATGTTATCA ACGTTTTTGT AAATATTTAC TATGTTTTTC TATTAGCTAA 180
 ATTCACAACAA TTTTGTACTT TAATAAAATG TTCTAAACAT TGCAAA 226

SEQ ID NO:1134

SEQUENCE LENGTH:225

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01280

SEQUENCE DESCRIPTION:

GATCTTTACC AAATTCCTGA CTCAGAGTTC CTCCCATTTN CTTCTGACTC TCATTTTATT 60
 CTTACCTCTC ATTTTATTCT TATGATGTTT ACCATTTCN TTCTCCTCAG TGTCCTCTC 120

TGAGTGGTAA GAGTATGTTA ATAAGCCAGT NCTGAGACCG GAGCACGAGG CAACTGCTCA 180
 ATGTTGGTCA TTGTCAGTGT TATTAAATGT AACTTAAGGG NNAAG 225

5 SEQ ID NO:1135

SEQUENCE LENGTH:224

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01281

10 SEQUENCE DESCRIPTION:

GATCTGACTT AAAAACCAC CAGCATGCTC AATCCCTTGT NATCCTTATG GAATCTGTAT 60

GTAACTCTC TGGGTGTTCA GGCTTCTATT TGAAGCTGT TGTNACCCTG TTTGCAAAAT 120

GAATATGACA CTCTGTGGAT TATTTNCTCT GTAAGGCACA AGTNCTTCTN ATGATTANTT 180

15 TGACGTTTCA NGAGCAAAAG CAAATTNANA CTCTCTTCAG CAAA 224

SEQ ID NO:1136

SEQUENCE LENGTH:223

SEQUENCE TYPE:nucleic acid

20 TOPOLOGY:linear

CLONE:HUMGS01282

SEQUENCE DESCRIPTION:

GATCCAATAG GAGACACCAG TTCCTTGACT GANCCATGCC CCCACCTAAG TNACAAAATG 60

25 AGGGAAGTGG GGAGTTAGAT TTCAGAGTCC AGGCCCTAG GTTGGGACCC ACTCCAAATA 120

ATCTCCTCGG TGTGGGTNGT GGTCTATAG AGGNATANAT GAATAATAAA CATTGTAAAA 180

NTATACGATA ATGNATAAAG TAATCCTTTC ATCANNTGTG AAA 223

30 SEQ ID NO:1137

SEQUENCE LENGTH:222

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01283

35 SEQUENCE DESCRIPTION:

GATCCATCCG ATGGCCTACC AGCTGCAGCT CCAAGCCGCC AGCAACTTCA AGAGCCCACT 60

CAAGACGATT CGCTGATTCC CTCCCCCACC TGTCTGCAG TCTTTGACTT TTCCTTTCTT 120

TTTTGCCACC CTTTCAGGAA CCCTGTATGG TTTNAGTTT AAATTAAAGG AGTCGTTATC 180

40 GTGGTGGGAA TATGAAATAA AGTAGAAGAA AAGGCCATGA AA 222

SEQ ID NO:1138

SEQUENCE LENGTH:432

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS01284

SEQUENCE DESCRIPTION:

GATGCGACAT CCCTGCGCCC CCATGCCCCC ATGCCCTCT GAGTCACACA GGACAGAGGA 60

50 GGCAGAGCTT CTGCCACTG TTATCTTCAC TTTCTTTGTC CAGTCTTTTG TTTTAATAA 120

GCACTGACCC TCCCTACTCT TCTTTTAAAT GATTTTNGTA GTTGATTGT CTGAACTGTG 180

GCNACTGTGC ATTCCTTGAA TAATCACTTG TAAAAATTGT CAGTGCTTGA NGCTGTTTCC 240
 TTTACTCACA TTGAAGGGAC TTCGTTGGTT TTTNGGAGTC TTGGTTGTGA CNCAAGAGC 300
 AGAGTGAGGA AGACCCCAA GCATAGACTC GGGTACTGTG ATGATGGCTG CAGTCCAGTT 360
 TTTATGATTG TGCTTTTAT GTGTCCCTTG ATACCAGTGG NCTTANCAAT TATACATTNC 420
 CTCATANTTA AA 432

SEQ ID NO:1139

SEQUENCE LENGTH:220

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01285

SEQUENCE DESCRIPTION:

GATCAGACCC AGAGAAAAGT AGTTGTCAGT CATAGCACAC ATCGGACATT TGGAAAACAG 60
 CAGTGGCAAC AACTGTATGA CACACTTAAT GCCTGGAAAC AAAATCTGAA CAAAGTGAAA 120
 AACAGCCTTT TGAGTCTTTC TGATACCTGA GTTTTATGC TTATAATTTT TGTTCCTTGA 180
 AAAAAAGCC CTAATCATA GTAAAACATT ATANNCTAAA 220

SEQ ID NO:1140

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01286

SEQUENCE DESCRIPTION:

GATCTTGCGG CCTGTTTTCC CATGGGATTC AAGAGGGACA GCGCCAGCTT TTTTGTGTTT 60
 TAAGCTTAGG AATCGCCTTT ATGGAAAGGG CTATGTGGGA GANTCAGCTA TCTTGINTGG 120
 TTTTTTGTAG ACCTCAGATG TGTNTTCAGC AGGNCTGAAA NCTTTNTNC TTTAATAATG 180
 AGAAATGTAT ATTTTACTAA TAAATTATTN ACCGAGAAA 219

SEQ ID NO:1141

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01287

SEQUENCE DESCRIPTION:

GATCTAGAGA CAAAGGATAC TCAATGAGGA GCTTTTTTCC CCTCTTGGA CAGGTAAAAT 60
 GCTTTTCCTT ATTAATATAA TTATAAAACA GTATTTTATG TAACAGCTAT TCCCATATTC 120
 TAGGAGTGGC CTAAGAAATG CGTGTTCAG TGA CTAGATT ATAAATATNC TCTATTGTGA 180
 ATAGTTGAAT AAAACAGCTG TTTTTTCTG CTTCCTAAA 219

SEQ ID NO:1142

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01288

SEQUENCE DESCRIPTION:

EP 0 679 716 A1

GATCTGTGAA ATGCTATCTC TCCTGANGCA ATACTGTTGA CCAGAAAGGA CACTCCATAT 60
TGTGAAACCG GCCTAATTTT TCTGACTGAT ATGGAAACGA TTGCCAACAC ATACTTCTAC 120
TTTTAAATAA ACAACTTTGA TGATGTAAC TACCTTCCA GAGTTATGGA AATTTTGTCC 180
CCATGTAATG AATAAATTGT ATGTATTTTT CTCTATAAA 219

SEQ ID NO:1143

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01289

SEQUENCE DESCRIPTION:

GATCCCTGGA CACTTACGTA CAATGCTTCG TNCCTGCTGA TGACAGCCGG GCCAGCCGCC 60
AGCNTACAAG GNTTGTNCGA CGCAGCCTCA GCCCTGTNTT CAATCACACC ATGGTGTACG 120
ATGGCTTTGG GCCTGCTGAC CTGCGCCAGG CTTGTNCCGA GCTCTCCCTC TGGGACCATG 180
GGGCCCTGGG CAACCGNCAG NTNGGGAGGC ACACGCNTN 219

SEQ ID NO:1144

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01290

SEQUENCE DESCRIPTION:

GATCTCGGTG CTTCTTCTG TGCTGTGGTT TACCCCAAAC CTTAGGTTG TTTATTCATT 60
CAGATTAGAT AGACTGGAGC CATAAAGTTA ATTTGCACCT AGCTTTTTGG AGAATAGCCA 120
TGATTAAC TGATTCTGTTG TGGGGGTGGG GGGGAACCTT ATGATTACT ATGCAGATGA 180
AGAGGGTAGG AACTAAATAA AGGACTTTGT AAGCCAAA 218

SEQ ID NO:1145

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01291

SEQUENCE DESCRIPTION:

GATCAAGAGG GAGTTCATGC AACACCTGAG AATCTGATTA ATGCACTGAA TAAGTCTGGA 60
TTAAGTGACC TTGCAGAAAG TCTAACTAAT GACAATGAGA CAAATAGTTA GCTTCTTTTT 120
TTTTTCTTTT TATTAAANCT GNGATAGATT TTNTTACCAA GCAGCATTG ATAAGAGGTC 180
CACTGGTTTT GGTAANCAAT AANCATTTTT ATACCAA 218

SEQ ID NO:1146

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01292

SEQUENCE DESCRIPTION:

GATCCCCAGC TGTATTGCA TAGATAATCT CTCCATTCCC GTGGAACGTT TTTCTGTTC 60

TTAAGACGTG ATTTTGCTGT AGAAGATGGC ACTTATAACC AAAGCCCCAA GTGGTATAGA 120
 AATGCTGGTT TTTCAGTTTT CAGGAGTGGG TTGATTCAG CACCTACAGT GTACAGTCTT 180
 GTATTAAAGT GTTAATAAAA GTACATGTTA AACTTAAA 218

SEQ ID NO:1147
 SEQUENCE LENGTH:217
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01293

SEQUENCE DESCRIPTION:
 GATCCTATCC AGTTGAGGAA TGCTTGCAAT GCTCATTGAA GGGATTGCT TTGGGACTTT 60
 GTCATCTTCC AGAAAGGAAA CATATTGTAT ATTTGGCCCA GTGTGATTGA TTGCTTTATC 120
 TTTGGTAACT TTACTTGAA TGGGATTGCG TGAATTAATG ACTATTGAAT TAAAACTAA 180
 TTATGAGTTG ACAAATAAAT AAAAGGTAGT GTTTAAA 217

SEQ ID NO:1148
 SEQUENCE LENGTH:217
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01294

SEQUENCE DESCRIPTION:
 GATCATAGTC AGAAAGTACT GCAGTTAACA GGAACCTTCT TGTCAGGCT GTCATAGCCA 60
 CAGTTGCAAA AAGTGCAGTA TTGATTAATG CAATNAGTGC AATNAGTGAC ATCCTGAGTC 120
 TTTTATCTGT TNAGCTTGCT NTNCTNTTCT NTCATACATC AGGATATTGC CTGTAATGTG 180
 GAGTGGACAG GATAAAAATA AGNATTTTAC TTTCAAA 217

SEQ ID NO:1149
 SEQUENCE LENGTH:124
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01295

SEQUENCE DESCRIPTION:
 GATCTGAAGA AAGCTTTTGG TGCTTGTCTT CACAACCACC TCAGTCTCTC CTCCCTGTCC 60
 TCCCCTGTCT CCTTCTCTCC TCCTGGGTTT ATGTTGTAAT AAAAGAAGAT TGTTGGTGTG 120
 TAAA 124

SEQ ID NO:1150
 SEQUENCE LENGTH:215
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01296

SEQUENCE DESCRIPTION:
 GATCATAGCT TGTTTTATTT TGTGCTATAA AATTAACAGT ATTAAATGAC TTATATTCTT 60
 AGAATACATC GAGTGTCTTT TCTTAACAGA TTAGTGCCCTT TTNATTTTGG TATTCCGTTT 120
 TACGTTACTG GTCCCAGCAT CAAAACCCCTT GTTCCATGG CCTGTTTGTA TATTGTCTCA 180

ATAAACTTG CATCAGCCGG TGGTGGCGGC AGAAA

215

5

SEQ ID NO:1151

SEQUENCE LENGTH:299

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01297

10

SEQUENCE DESCRIPTION:

GATCATAGTG TTTTGAATC ATTTAATGTC TGCAGCCAAA TTTTAAGGG TAATTTAGAC 60

CTAATACTGC TCTTGCTGTG TCTTATTAAG TTAAAATTAA TGAATGANTN CTGGTAAAAA 120

TTCANNNGG CACTCTGTGA GTAGAGAGTA TCATTTAAGC TTATTNAGT CACATGTAGT 180

15

ATATATCTCC TTAAAGCTGT CACTCTCACT TTNCTTACCA TTCTCTGAT TTNNTCAGAA 240

NCCATCTAGT CATCATCTTT ATACTCTACC TGCTTCTGCA ATTGTATATC ANATNGNGN 299

SEQ ID NO:1152

SEQUENCE LENGTH:214

20

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01298

SEQUENCE DESCRIPTION:

25

GATCAAGTT TAATTGCTTC ATTTTGTIT AAAAAGGGAT ACTGATGTCA GAAAATCTGT 60

AATATGTTTT ATTCAAAAGA TGTAATAAT GTATACAGAC TTGTATGTGA TGGGATGGGA 120

AATATTTAAA TNCTAGGTGT TTTTTTTTT TTNAANGNGG AACCNCAATG TTTATAGGAA 180

AAAANTGATT AANTNGTTCC GTTTGGCCNT GAAA 214

30

SEQ ID NO:1153

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01299

35

SEQUENCE DESCRIPTION:

GATCCCTCTC CTCGCCTGCC TTCTGGAAGA CTTCAGAAGA TTGAGCCTCA CTGGTGCCAG 60

GAAGCCAAAG CTTACTTTGT AGAACTGACA CTAACCTACC CGAAGACTTA GGTGCTTTGT 120

GTACTTAACC CCAGGACCTN CTTACTTTTT AATATAAAGA GTGATGTTGT ATTTCGTGTT 180

40

CTGCACTTTT TAATATAAAG AGTGATGTTG TAAA 214

SEQ ID NO:1154

SEQUENCE LENGTH:214

45

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01300

SEQUENCE DESCRIPTION:

GATCCCAAAG CCACGCTCAT CCAATCCTGG NGAATCATTT ATTTTGAATA TAGACCATTG 60

50

AATAGGTGAA AAATGGAAAA GTCACTTTTT GTACATTTGC ATTCCTTCAA TAATGATTAC 120

CATTTGTNCA CATATTTGTT GACCATTGGA ATTGATTTTA GCACAGTGCC TAAAAATAG 180

55

TAGGTGCTCA ATAAATATTT GTTAATTGAA TAAA

214

SEQ ID NO:1155

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01301

SEQUENCE DESCRIPTION:

GATCCAAACT AATAAGAATA AGCTGTACAG GAACTAGTGC TCAATATACA TTGTATAAAT 60
 TTGTGGAAAT CTCTTGGATG TNAATTGTTA CTTCAAGTGG CTTTATTAA GATTTNCTCA 120
 GACTTACTTG GAGGTTAAAG CAAACCCAAA TGTGTATTAT TTGTTACAG AGCTCTGCTT 180
 TATAATTTG TAATAAAGTT TCAATACAGA CAAA 214

SEQ ID NO:1156

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01302

SEQUENCE DESCRIPTION:

GATCGCAGTG GAAGAAGATT AGTGCATCAT TGAGAGAGGA GAAGTGGAGT GTGGGGTGAG 60
 CAAAAGCCAA AATACTAATC ACTAGTACAC CAGAGATGCT CCACAAGGTA TGCTCCCCAC 120
 GGTTCCTTCT CAATTTCAAA GGTNAAGATG TTTTTTGTG GTGATATAAA ATTTATTGTG 180
 AATACTTGGT CCATNAAATT GGTACTTGCT AAA 213

SEQ ID NO:1157

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01303

SEQUENCE DESCRIPTION:

GATCTTGTG AGGCATTTAG CTGCCATGCA CCTGTCCCC TTTAATACTG GGCATTTTAA 60
 AGCCATCTCA AGAGGCATCT TCTACATGTT TTGTACGCAT TAAAATAATT TCAAAGATAT 120
 CTGAGAAAAG CCGATATTTG CCATTCTTCC TATATCCTGG AATATATCTT GCATCCTGAG 180
 TTTATAATAA TAAATAATAT TCTACCTTGG AAA 213

SEQ ID NO:1158

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01304

SEQUENCE DESCRIPTION:

GATCTCATTT CAATTCTTT ATTAGAGGGC CTTATTGATG TGTCTAAGT CTTCCAGAA 60
 AAAAAGTATC CAGTGATTTA TATCTGATT TCAACCAGTC ACTTAGCTGA TAATCACAGT 120
 AAGAAGACTT CTGGTATTAT CTCTCTATCA GATAAGATT TGTTAATGTA CTATTTTACT 180
 CTTCAATAAA TAAACAGTT TATTATCTCA AA 212

SEQ ID NO:1159

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01305

SEQUENCE DESCRIPTION:

GATCTGGTCT GTTCCTGCGT CTGCGGANGG CCCTTGCTC CCAGCTATCT ATAACCTTAG 60
CTAGAGTGTC GCCTTGTTGGG TTCCTGTTGC TGAGACTTCC TGGATGGAGC CGCCTCACCG 120
CCGGGCCCCGT GGCCTGCNCG GANTGTGTCC AATAAAGTTC TTGGATGTGA AAACCTTAACA 180
ATTTTGTGTA ATAAAAATGG AGAAGCTCTA AA 212

SEQ ID NO:1160

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01306

SEQUENCE DESCRIPTION:

GATCCTTGGT GTGTAGTTCA GTCTTGCACT ATACAAGCTT TTGTGTATAA ATGTTTTATG 60
ATATGATTCC CTGTATTTTG CAGGGGTTTT TTTCTCTTT NCTTTTGA TAAATATGTA 120
TATCAATATT TAAATNCAT CTTTGCTTT TTTAGAGGAG TTTGTAATCA CTTTATAACA 180
TGAAAATAAA CATTTCCTTT TTAACATCAA A 211

SEQ ID NO:1161

SEQUENCE LENGTH:210

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01307

SEQUENCE DESCRIPTION:

GATCCTGTAT ATGTGTGTTT TGGGGGAGCT ATGATAAGTT TTATGGCAA CGGTTGGTAT 60
TGTTAACTTT TTATTGTCAT CAAAAGTTCA TAAAAGTCCT ATTAATCCCC ATATTCTNNN 120
NCTGCCCTTA ACTCTGGTAT ACACCAAAAA GAAATCTTAA CTTTCCTTGT TTTATCATTA 180
TAAAAATAAA GTATTTTGCT AGTATGGAAA 210

SEQ ID NO:1162

SEQUENCE LENGTH:210

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01308

SEQUENCE DESCRIPTION:

GATCCGCCCA TGTNAGCCTC CCAAAGTGCT AGGGTTACAG GCATGAGCTA CCATGCCTGG 60
CAACAGCTTT CATATTTGTA AGTTTTTTTT CCTAGGTAAC CCAAGGTCTA TTGAAATTNC 120
ATATAGCTTT CTTTNCATTT ACATATTTAA ATAGATTNN CCTGATTNA GAAAAGCTGT 180
AGATTTTAT ATGTNAATCT TGTNTCCNTN 210

SEQ ID NO:1163

SEQUENCE LENGTH:209

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01309

SEQUENCE DESCRIPTION:

GATCTNGGAC TCTNCCTCTC ACGACTGCCG CTTAGTCACT CAGACATACG GCGCANTGCA 60
GGAAAAGCCT ACACAGACGA CCTGGGTGCT GTGGGTGGCG CCTGCNTGGA GGACGAGCCA 120
GCNTCCTGCN CTGGATGAGG ACAGCGAGCA CCCGCCATNA TTCTNCGGAC TGA CTGAACT 180
TNACCTGTGA CCTCTTACCN GTGGAGCAN 209

SEQ ID NO:1164

SEQUENCE LENGTH:209

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01310

SEQUENCE DESCRIPTION:

GATCACTNCA GGCCAGGNGT CCAAGACCAG CACGNCCAAC ATGGCAAAAC CCA GTCTGTA 60
CTAAAAATAG AAAAATTAGC TGGGCGTGGT GGC GTGTGCC TGCAATACCA GCTACTCAGA 120
AGGCTGNAGC AGGNTAATTG CTTGANCCTG GTAGGTGGAG GTTNCAGTGA GCTGANATCA 180
TGCCACTGNA CTCCAGCCTG GGTNACAGN 209

SEQ ID NO:1165

SEQUENCE LENGTH:207

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01311

SEQUENCE DESCRIPTION:

GATCCTTACC GTCCTAGAGA GCAGACGCTT TCTGAAAAC ACTTGCTCCA AAAGACCCTC 60
TGAGTTAACG TTTCAGCTGT ATCATTAGAC TTGTATTTAG AGCGTGTAC TTCTCTGAA 120
CTGTACTGCT CTGAATGGAG TCCTGGACGA CATTGGGTTT TTCCTCTAGG AGAATACAAG 180
CCTTAATAAA CAATACTATT TAGCAAA 207

SEQ ID NO:1166

SEQUENCE LENGTH:207

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01312

SEQUENCE DESCRIPTION:

GATCTGAACA AAGTCTGCAT TTNGTTAATA GTGTGGTACC AATGTGGTT TCATAGTTTT 60
GGCCATTGTG CTGTGTATTT ATAAGATGCT AACATTAGGG ATAGCTGAAT GTGGTATATA 120
TAGGAACTCT GTGCTGAGTT TATAACTCCT CTGTATGTCT AAAACTATTT CAAAATAAAA 180
NGTTTAAAGG TAAAANAAAA GATTAAA 207

SEQ ID NO:1167

SEQUENCE LENGTH:206

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01313

SEQUENCE DESCRIPTION:

GATCCAGCCA CCACTCTGAA ACTCATCACA TCTTCATTGA CAGGGAGGGA GCCCAGGACA 60
 TATGTGTGGC TCATTGACCA GAAGGCTTTC TTAGTCCCAA CAGCCATGAA CCATGCACTT 120
 ATGGATACCC AGCCTTTTAG GGCTACGTGA AATGCATCCT TGTANCATCA TTGTATTCTT 180
 TCAATAAATA GCCTTCTGAG TTGAAA 206

SEQ ID NO:1168

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01314

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTATNAGAG CTTTGAGAAG CTCCGCCACA TGCTACTGTT GGCTATCCAG 60
 GAGTGCTCTG AAGGCTTTGG GCTGGCCTAA TAAGGCCCTG CCCAACTCCG TGGGGTTTTT 120
 TTAACCATTG TTGGACCTGG GGAGGGGGGA GTTAAAAAAA GAACCAGAAA GAAATTGTCA 180
 AAAACCAATA AATGAAATCC ACCAACTCAC AAA 213

SEQ ID NO:1169

SEQUENCE LENGTH:215

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01315

SEQUENCE DESCRIPTION:

GATCTAAAGT GACCTTGATG GACAGTGGAA GAAATCACA CATGGAATTC CTCGAATAAC 60
 AATTTATTGA CTTAAATAA TTTTGTCTAA TGCTACATAT ACACAATTAA AAAACCTTTA 120
 CACTATTTCT AGAAAGTCAG CATGTATTTT TGGCTCGNNG TTTCCNCCNG TGTTTTCTGT 180
 GGAAGGAATA AAAATTTGAG TTTCAGTTGT GTAAA 215

SEQ ID NO:1170

SEQUENCE LENGTH:349

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01316

SEQUENCE DESCRIPTION:

GATCTGTGAC AGCAGCAGCT TCATGTTGTA TTTTTTTTAC TGAAATTGTA AAATATCCAT 60
 CTTAAAGACA TCAACTATTC TAAAAANTGT TTACAGGATA TTCCTTTAGT GGTGGAATTA 120
 AAATNTACGA NTACTTGCTT TTTCAAAAAA ATGTATTTT TGTAAAAAGT TTAAAGATT 180
 TTGCTATATA TTATGGAAGA AAAATGTAAT CGTAAATATT AATTTTNTAC CTATATTGTG 240
 CAATACTTGA AAAAAACGGT ATNGAAAGTA TTTTGAGTCA GTGTCTTACA TGTTAAGAGG 300
 GACTGAAATA GTTTATATTA AGTTTGTATT AAANTTCTTT AAAATTAAA 349

SEQ ID NO:1171

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01317

SEQUENCE DESCRIPTION:

GATCCAAGCT GTATATACCA TATATAAACA TTTTACATGA ATCATTAGT TTTTAAATTC 60
 ATTTACTAAT GCTATAAAAT TTCCTATATT ACCCCAGTAA TTTGCATCAG CTGGTTTATA 120
 TACTAAAGCA ACATGTTTTG ATGAGTTTCT TACATCCTTA TCGAGGAATT GGGTTAGGAA 180
 AAAATACATA ATGTAAAAAC TGAAC 205

SEQ ID NO:1172

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01318

SEQUENCE DESCRIPTION:

GATCTTCAGG NTTCTACAAA TAGGGTAATT GTAAATTAA AGCATTAGCA TTTATTGGTG 60
 AATAATGTAT ATATCCCAT TCCAAGAAAT ATAAGTNAGT NANGTTGAAA TAAAATCTTT 120
 AAAATTTACT ATATTGCCAG TGGTTTCACA NCAGTTCTCT TGTATTATT TATCAATTAA 180
 ATCAAATAAA AATGATTATG TCAAA 205

SEQ ID NO:1173

SEQUENCE LENGTH:204

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01319

SEQUENCE DESCRIPTION:

GATCCCGTGA CCTGCATTAC CTGGTAACC ATTTCATTTT TTAATTAAAT TTCATTTTTT 60
 AATTTTGGTG TACAAGCTGT AACATTTCAT CTTCAAAGT GTAACACGCT GATTTCCTCA 120
 AATAGAGATA CCCCTTTGAG TGATAAATTT GCAAAATGCT GTCTTCATTT TCTGTATTAA 180
 AATTCATTTT AGTTTTAAAA TAAA 204

SEQ ID NO:1174

SEQUENCE LENGTH:204

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01320

SEQUENCE DESCRIPTION:

GATCAGAGCT GCTGAGTTCA GGATGCCTGN GNGTGGTTAG GGTAGCTTCT TACATGGATG 60
 TCAGGAGAGC TGCTGCCCTT GCGTGAGTG CGTATTCAGG TGTTTTGCTG CTTTGGCAGA 120
 GAGTGGTTGA GTGTNGAATC GTTCAGCTCT NAGGTTCTGT NCCCTGTGGT GGAGAGGACG 180
 CAGCAGCNAN NTCTGGGNTC TNAN 204

SEQ ID NO:1175

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01321

SEQUENCE DESCRIPTION:

GATCAGTGCT CTCTATTGAT GTTCTTGCTG GTCTCCAGNC ACATTCCTGT TGCATTAAGN 60
 CTTGAAAGAC TTGTAGATGT GTGATGTTCA GGCACAGGAT GCTGNAAGTA TGTTACTATT 120
 CTNAGTTTGT AAATTGTCCT TTTGATACCA TCATCTNGTT TTCTTTTGT AGGTATAAAT 180
 AAAANCACTG TTGNCANTAA GGAAA 205

SEQ ID NO:1176

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01322

SEQUENCE DESCRIPTION:

GATCTCAGCC ATAAAGTGCC AGTTTGCTTA GTTCTCACTG TCTCCTGGTC TGTGCTGCCC 60
 TGCTCTGGGG ATGCACGGCG GCAGGGTGGG GGAGGGAGGT TCCTCGCAGG TCTCAGCCCC 120
 GGACAGGGTC TTGAAGCAG CCTCCTGGGC AGTCGTAAGG GTTGCGGCGT GATGTCTTCA 180
 ATAAATTAAG TTTTATTGG AAA 203

SEQ ID NO:1177

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01323

SEQUENCE DESCRIPTION:

GATCAAAATG AAACAAATAT ACCTTATCCT AAAGAGCTCA TAACAAATAA GTTACCTCCA 60
 CTCTATAAAC TCAGACCTAC TTTTGAAGA TAACTGCTTT TAACCTCTCC TTACAAGATT 120
 TTTGTTGTTG ATGTATTTAA TTTTAGCCCA TGTCTCAATT CTCATTTTCA AAGAATCAAT 180
 ATATTAATAT ACCTTTGGTC AAA 203

SEQ ID NO:1178

SEQUENCE LENGTH:202

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01324

SEQUENCE DESCRIPTION:

GATCGCTCTT GTGTTTTGC ACTATTAATT AACTTCAAGT GCAATTTTGG CAGGCAGGCC 60
 AAGGGTCTCA ACAGGCTATT TGAATGAGT TCTCTTTTAA GGCCTTCAAC GTAGTNGAC 120
 ATTTTCAAAT CAAAAAGTAC AGCAGGAGCC AGCCTTTATT TTGCTGTGT ACACAATAAA 180
 ATATTCCGCT TCTATAGGCA AA 202

SEQ ID NO:1179

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01325

SEQUENCE DESCRIPTION:

GATCAGCTGA AGGTTTCATGG GTTTTAAAGTG CTTGTGGCTC ACTGAAGCTT AAGTTAGGAT 60
 TTCNTTGCAA TGAGTAGAAT TTCCCTTCTT TCCCTTGTC AAGGTTTAAA AACCTCACAG 120
 CTTGTATAAT GTAACCATTT GGGGTCCGCT TTAACTTGG ACTAGTGTA CTCCTTCATG 180
 CAATAAACTG AAAAGAGCCA TGCTGTCTAA A 211

SEQ ID NO:1180

SEQUENCE LENGTH:199

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01326

SEQUENCE DESCRIPTION:

GATCCCAGGG TGCAAAGTGG CATTGAGACA GCAGCAACAG CTCAAGAGAT ATCTCCTGCC 60
 TACTTGCCCC TCCTTCCAGG CCGGCTCTAA GAGAAAGGCC CATCTACTCA GGAAGAGGGC 120
 CAGGNCCTTG GGTCTGTTGGG ATTGGCCCCCT GAGAGGGCTA GTCCTGTGGC TGAATAATAA 180
 GCATGTCCCG CCCNNTAAA 199

SEQ ID NO:1181

SEQUENCE LENGTH:199

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01327

SEQUENCE DESCRIPTION:

GATCTTTTTT TGGATATTTA TACTTTTAGA TATATAGTAC CTTTAAAGTAG CAGTATGGGA 60
 CAAGGCTTGT AAATGTTTTG TCTAATGTTT TATTGTCACC TTTTATGCAT TTATCACTTC 120
 CAAATCTAAC TTTGCACAAG TAACCCATGT AAAAAAAAAAT GTACATTTTT CAAAAGTTGT 180
 AAATAAAAAAT AACCTTAAA 199

SEQ ID NO:1182

SEQUENCE LENGTH:252

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01328

SEQUENCE DESCRIPTION:

GATCTGGACA GCTGTCCCTC CACTACAGAA ACCTCACAGA ACACAGCAAA GNATAAGTGC 60
 ANGAAGGCTG CTTCCAGCTC CAAAGCACCT ANGAATGGAG GTAAAGCGAA GGATTCAGCA 120
 ANGACAGCAG AGGAAACTTC CANGCCAAAA GNTGACTAAA GNAGTACAGG TTANGGTATC 180
 TGGTATCTGC ATGTAGANTC TTCAGCTGGT GGATGGTGAC TTTTGAAGTA CNAAGGCTT 240
 TGGCAACNGN AN 252

SEQ ID NO:1183

SEQUENCE LENGTH:197

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01329

SEQUENCE DESCRIPTION:

GATCTAGGGA GTTACCTAGC AGACCTTCCG GACTGACGTG ATGCTACAGG GGTCCCATCT 60
 TTCCTTGTC A TTGAGCTATT TTACAGTTCT GTGAATTGTA AAGAACTGAG GGTAAATGCGA 120
 ATNACTCTTG TTCATAGAGG CAAATGAATT TTGTCCCATG GAGATTTAAT TGATATTACT 180
 CTGTGGATGT TGACAAA 197

SEQ ID NO:1184

SEQUENCE LENGTH:146

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01330

SEQUENCE DESCRIPTION:

GATCATAGCT ACTACTTCAT TGCAACCTTT ATTAAGTAC CACATCAGAC ATCATGCTAA 60
 ATACCTGAAT GCATGAAAAA ACTCCAAATA AGAGAATCTC TTCAGGATTA TAAAAGTTGT 120
 AAAATGCAAC TGTATTGCTG AGCAAA 146

SEQ ID NO:1185

SEQUENCE LENGTH:197

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01331

SEQUENCE DESCRIPTION:

GATCCGGCTG CACACCAGGT GCGGAGGCTG AGCCATCCCT GCTGGACTCC CTACCGCAGA 60
 CGGAGTCANG NACGCAGCCG CAGCCNCNTT CCTTCACACC CCCTCACAGA CTCCTTGTGT 120
 CCAACGGGAA TAGGAAGAAT TAGTTACTGA CTTACCTGA GAAAAAATA AATNCTCTAT 180
 GGTGGTTTCA CAGGAAA 197

SEQ ID NO:1186

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01332

SEQUENCE DESCRIPTION:

GATCTCTTTG TGAAGTCTGT GTTCTCTATA TTAGATTGCT GTTTATATGT AAGAATTTTA 60
 TTGCTTATGT GGCATACAAT ATTTATACT ATAACTTTA TAGAAGTACA GTATTAAAGT 120
 CAGTGGTACA CAGACATTCT GTACATATCC TGTGAAACGT GCTGTCATAT GAAATAAATA 180
 TATCTGTCTT TACAAA 196

SEQ ID NO:1187

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01333

SEQUENCE DESCRIPTION:

5 GATCTTCCCC ATTGTCCACT CAAGTCGTGG CCTGGGGAAC ACAGACGGAG CTGTCCCCAG 60
 TGTCTCCCGT CCCTCAGCCC CTGGCCTGGC TGAGTTTGGC AGGGCCTGGG CCATCCCTGG 120
 GACAAAGGTG CGTCCCTTCA GCTCTTCTCC GTGGAGCTCG GGGCTTTCTG TATTTATGTA 180
 TTTGTACGAA TGTAAG 196

10 SEQ ID NO:1188

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01334

15 SEQUENCE DESCRIPTION:

20 GATCTTCGGC CTCATTCTGA ATACCTNTTC TTTGGACAGT NTTTTTCCTT TGGTGCTCTC 60
 TTGCCTTTAG CTACCTTCTC TAATATGTAT GCTACCATCA CTAATAAAGT GATGGGAATG 120
 GGTITGAGAG TCGTAATTA TATTAATAAG TTGTTGGACT TTAAATACA TTTTNCAAA 180
 TAAAAAATTA AGCAAA 196

SEQ ID NO:1189

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01335

SEQUENCE DESCRIPTION:

30 GATCATGTGT GCACAATACT TGTGGCCAC AAAATTTAC AATGACTGCT GAGGAATCAT 60
 TCTTTTGGC TGTAATAAT AACAAAGGC ATCATTAGT AGACCAGGTA ATTACTGCTT 120
 GTNTCTCAAG GCTGCTGTCT TTATCAGCAC TAACTAAATA AATTTGTTGG TTCAGTTGTA 180
 CTTGTCCTGC AAA 193

35 SEQ ID NO:1190

SEQUENCE LENGTH:192

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01336

40 SEQUENCE DESCRIPTION:

45 GATCCTGTGT CCTAAATTA TATACACCAG TGGTTCCTCC TCCCTGGTAA AGACTAATGC 60
 TCAGATGCTG TTTACGGATA TTTATATTCT AGTCTCACTC TCTTGCCCA CCCTTCTTCT 120
 CTTCCCAATT CCAACTCCA GCTAAATAT GGAAGGGAG AACCCTCAAT AAACTGCCA 180
 TGGNCTTTA AA 192

SEQ ID NO:1191

SEQUENCE LENGTH:189

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01337

SEQUENCE DESCRIPTION:

GATCAGTGCC TTGATGCCAA CTAAGGAAAT TTGTTTAGCA TTGAATCTCT GAAGGCTCTA 60
 TGAAGGAAT AGCATGATGT GCTGTTAGAA TCAGATGTTA CTGCTAAAAT TTACATGTTG 120
 TGATGTAAT TGTGTAGAAA ACCATTAAAT CATTCAAAAT AATAAACTAT TTTTATTAGA 180
 GAATGTAAA 189

SEQ ID NO:1192

SEQUENCE LENGTH:189

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01338

SEQUENCE DESCRIPTION:

GATCAAAATTT TTGTAAGAAAT TTTTAAGAAG AGATGGCTTA TTAACAGGGA AGAAGCTTGT 60
 NATATTCCAG TTGTAAGAAT AGCCTTAGTG TTTAGATTTT TTNATGATAG GNNAGATGCG 120
 GNCATCACTG GGATATTNC AAATCCCAAG GNCATCAGAG TGAAGTGTCA GTTGTGAGAT 180
 GATTNNAN 189

SEQ ID NO:1193

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01339

SEQUENCE DESCRIPTION:

GATCCCAGCC AGGCCCTGGA GGTCTGACAG CCCCTCCCTC CCAGAGCTGG TTCCTCCCTG 60
 GGAGGGCAAC TTCAGGGCTG GCCACCCCCC GTGTTCCCA TCCTCAGTTG AAGTTTGATG 120
 AATTNANGTC GGGCCTCTAT GCCAACTGGT TCCTTTTGT CTCAATAAAT GTTGGGTTG 180
 GTAATAAA 188

SEQ ID NO:1194

SEQUENCE LENGTH:187

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01340

SEQUENCE DESCRIPTION:

GATCTGAATG ATACTGTCTG CTGTGTCTTT TTCCATGAG AAATCACTGT TGCAAAATGC 60
 CTATAAATG ACTCTACTAA AATAACAATG TTTCAGTCTG AAAATTTGAA TTGAAAAAAA 120
 TGTATAATAT AAAATTTGAA TACTCTAAA TGATTATAAA AGTAAAAGTT GGTAAATTTAG 180
 GCAGAAA 187

SEQ ID NO:1195

SEQUENCE LENGTH:187

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01341

SEQUENCE DESCRIPTION:

GATCAGGGGG GAAATGGAAT GAGTGAGGCG GGCCAGGGAG CCGCTCAGCT CCAATCTTTG 60
 TCACTGTGTG AAATGTGGAC TTGGTATGAC CTGACTGTCC AATTTTCAAG ATGAACCAGA 120
 AATCCAGACC NTTATATAAA ATCTCCTGGA TTTTAAATG TTGGCAATTA ATCAGAATGT 180
 TTTTAAA 187

SEQ ID NO:1196

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01342

SEQUENCE DESCRIPTION:

GATCACTTAA TTCCTTTCTT ATCTTCCCCC TCACTTCCCT TTCTCCCACC CTCTTTTCCA 60
 AGCTGTTTCG TTGGAATATA TTAAGTGAAT GAGTTGCAGG NAATGCAGCA NACTTGTTTC 120
 NCCTAGATTT GAGTCAAACT CCTGNTCAAA GAATCGGTNG GGCATANAAG AAATNTTCTT 180
 NTTAAA 186

SEQ ID NO:1197

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01343

SEQUENCE DESCRIPTION:

GATCTTTTAA ATGACAGTAC AGACTGAGAT TTGAAGGAAA CATGCACAAA TCTGTAAAAC 60
 ATAGACCTTC GCTTTATTTT TGTAAGTATC ACCTGCCACC ATGTTTGTGA ATTTGAGGGT 120
 CTTGATTTC AATTGTTCGG TGAAGAAAAT TTTCAATAAA TATGTATTAC CCGTCTGAAG 180
 CTTAAA 186

SEQ ID NO:1198

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01344

SEQUENCE DESCRIPTION:

GATCTTCAGG TATTTTAAAT TTAGTTACA TCAATTAATG TAAATNAATC CAAATGCTAA 60
 TTTTGTGGT GCAAGAAGTT TCTTATGTAA ATNCAGGGTA TGGATAAGCT AATTAAGATA 120
 TCCATCTTTG GTGGCTCTAA GTGTATTATT TGTNTTAAAA TAAAGTGTAC AAATATAGAT 180
 AACAAA 186

SEQ ID NO:1199

SEQUENCE LENGTH:184

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01345

SEQUENCE DESCRIPTION:

GATCTAAACA CGAGGAAACA TTATTCATTG GAAAAGTGCA TGGTGTGTAT TTNAGGGATT 60

ATNAGCTTCT TTCAAGGGCT AAGGCTGCAG AGATATTTCC TCCAGGAATC GTGTTTCAAT 120
 TGTAACCAAG AAATTTCAT TTGTNCTTCA TGAAAAAAAA CTTCCTGGTTT TTTTCATGTG 180
 GAAA 184

5

SEQ ID NO:1200
 SEQUENCE LENGTH:183
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01346

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SEQUENCE DESCRIPTION:
 GATCGCCCGC CCCAGCCCGG GGCCGCTCAG GTCTGCTTGG AGGATGCCTC CCCAGGAGG 60
 GCAGTGAGGG ATGCCGCAAC CTCGACTTCT CAGCCTCCTG GGGTCCGCC GGCCAACACT 120
 GTCTGTNTCA AATACTGTGC TGTGAGTTGT TTCAATAAAG GGGCCCAAG GGCTGGGCTG 180
 AAA 183

15

SEQ ID NO:1201
 SEQUENCE LENGTH:184
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01347

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SEQUENCE DESCRIPTION:
 GATCTCTGCT CAGCTTCCCT TGCCTTTTAA GGCCTGCCCT AGCCAGGGTT CCCTCCTGCT 60
 TCCAGTACCC TCTCATGGCA TAGGNTGCAA CCCAGCAGAG GGCAGCTAGA TGGACATTTT 120
 CCCTGCTCGG AAGGGTTNGC CTGCCTGGCT GGGGNGGTCA GTAACTTTG AATAGTAAGC 180
 CAAA 184

25

SEQ ID NO:1202
 SEQUENCE LENGTH:183
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01348

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SEQUENCE DESCRIPTION:
 GATCCCCITT GGTTTTACTA CCCAAATCTA AATAGATACT TTTGATAATA GATAACTGCT 60
 CTTTACTAA GACATAGTCT CTACCTATAG AAATGTATTT TGAAAACACT TATTTTACAC 120
 AGCAATTTG TATCCATTTA AACTAACCTT TTATCAATAA AGCACTATTG TTTAGATATT 180
 AAA 183

35

SEQ ID NO:1203
 SEQUENCE LENGTH:183
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01349

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SEQUENCE DESCRIPTION:
 GATCTCATTC TCCCTTTTAA TCCTGAGTTA CCATCAGTGC TAATGTTTCT CTTTGGGTA 60
 TAGTTCTCCA GGAGAACTTG TCCTATATTT NTTGTGTGT GTTTTTTCC TTCCAGCTTA 120

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AACAAATTAA AACTAAATAT CTAAACCTTG TATACAGACA TTAATAATTAG TGAGAGAAAC 180
AAA 183

SEQ ID NO:1204
SEQUENCE LENGTH:183
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01350

SEQUENCE DESCRIPTION:
GATCTGCTTT TNCATTCTT CCTCAACAAA TCCTCTTAAA GACCCCTTGC TATGTAGTCT 60
CATGGTCTAG CATGCATCTT GTAGAAACAA GGCATNCTGG CAGATTGCAG GGTGAGATG 120
TGTTTATCT GTTTTATATT TTAAGAGATT CTGCCAGAAA ATAAACCAG ACCTTGTCT 180
AAA 183

SEQ ID NO:1205
SEQUENCE LENGTH:183
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01351

SEQUENCE DESCRIPTION:
GATCTGAATA GAGAAATGCT TACAGATAAT CATTAGCCCA CATACCAGTA ACTTATACTT 60
AAAGATGGGA TGGAGTTGTA AAGTGCCTTT ATAATACAAT ATAATTGTTA AAGGCAAGGG 120
TTGACTCTTT GTTTTATTTT GACATGGCAT GTCCTGAAAT AAATATTGAT TCAATATGGC 180
AAA 183

SEQ ID NO:1206
SEQUENCE LENGTH:182
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01352

SEQUENCE DESCRIPTION:
GATCCTTGGG GGCCAGGGTG AAGGGTATTT TACGGGAACT CTATAAGCA GGAAGAAGCA 60
AGTTTATTCT TTAGACCAGT AGCTCTCAAC CATGATGTGG TCGTATATTT ATGGGTCAAC 120
ATGTGTTGTG GGGATATCCC AAGTAACTTG TTATTAATAA AAGTTAAGTT GCAAAATTTA 180
AA 182

SEQ ID NO:1207
SEQUENCE LENGTH:182
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01353

SEQUENCE DESCRIPTION:
GATCAAAATT GAAGACACAT TCAGAGGTTT GATTGGTTGA GATTAAGTGG TGTGGTGGTT 60
GGTGTATGTA TGTTTNATTT TNATGTCTTT GTATGTAGTT CTACATAATG CAAATTGTGC 120
TTTCTGATGG ACAAGACCTC ATAAGTGTGA TTAATATCAA TAAAAAGGGG ATGTTGTGGA 180

AA

182

SEQ ID NO:1208

SEQUENCE LENGTH:183

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01354

SEQUENCE DESCRIPTION:

GATCCGTCAA TCTGGGTGG AATNATTGTN CGCATTGGCG AGAAATATGT TGACATGTCT 60

GTCAAGACCA AGATTCAGAA GCTGGGCAGG GCTATGCGGG AGATTGTCTA AAAGTGTGG 120

TTTTCTGCCA TCAGTGAAAA TTCTTAACT TGGAGCAACA ATAAANAGCT TCCAGAACAG 180

AAA

183

SEQ ID NO:1209

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01355

SEQUENCE DESCRIPTION:

GATCATGTTA TATTCTATAT CAGACAACT ATTTNTTTT GACCTTTCTT CCCCTCCATC 60

CAGTATTTTC GTTGATTCA TTTTCTCCCC TCTCTCCCC TTCCACGAAC TGCAATACCA 120

GTAACCTTGG TATATATTTT TTGATACTGT ACACATGGAT GTNTTGTTC TATGTGCAAA 180

SEQ ID NO:1210

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01356

SEQUENCE DESCRIPTION:

GATCAAAGAT TCTCCCCATC TCACAGACAA GGAAACTNAG GCCAGAGGGA GGAGAGAATT 60

GCTCATGGCT CCANAAGTGG TGGCAAGTTT CTCTGGACTC TTAGGTTTAT TTTNAATATG 120

AAATATAAAA NCAGTTTCAA ATATCTNATT GAGGGAGANG TAAACCTTA TTAAANCAAA 180

SEQ ID NO:1211

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01357

SEQUENCE DESCRIPTION:

GATCTATAAA ATGGAAGGTG ACCAATGTCA CTGCTTCTAA AATACTGTCC TAAACAACCC 60

AGAAGATTTT ATTCAGCTC ATGAATAGCT GTTCTAAATC TGTTGTATGT TAGACATACT 120

ATGAACTACC TCTTCACTTA TTATGGGGAA GTTCCTTAA TAAAAGTGTG ACGATTAAA 179

SEQ ID NO:1212

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01358

SEQUENCE DESCRIPTION:

GATCCAAGAC CAGGGNGGTT GGGACGGCCT CCTNTCCTAC TTTGGGACGC CCACGTGGCA 60
GACCGTGACC ATCTTTTGG CGGGAGTNCCT CACCGCCTCA TTCACCATCT GGAAGAAGAT 120
GGGCTGAGGC CCCAGCTGC NTTGGACTGT TTTTNCNC CATAAATNAN GGCATTTTN 179

SEQ ID NO:1213

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01359

SEQUENCE DESCRIPTION:

GATCTGAGAT GTTCCTTAAC ATGTAGCCAT GTAATTAGAA CTCACAAGGG GCATTGAAAT 60
NTTTCCTTT TTCANATAGT CTGGGGCTAT TTACTTATTT NAAGTAAGCC AAGTCTACCA 120
TTGAAAAAT GGTGCTTTAT TTCCATATCT GANGCCTGAN GTTATTNNN AGTTTGTN 178

SEQ ID NO:1214

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01360

SEQUENCE DESCRIPTION:

GATCTGGCAT CCNAGGCTG CAGCTTTATT AGCTTATAAC TTACTCATCT CTATCTTTAC 60
GAGCAGGCTC TGTATTGTTG ATATTTGCAA CTNGNTTTCG TTTCCCATG GTGGAATTGA 120
AATAATTAGT TTTNAATNAC ATAAGANGCC TGTTTGCTAT TNGNGGAAG ATAGATGN 178

SEQ ID NO:1215

SEQUENCE LENGTH:176

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01361

SEQUENCE DESCRIPTION:

GATCAAAGAG GTTATCTCTG CCAGTCACAA GTGTGGCTGG TGTATTCTG GGTCTGACTG 60
GAGCCCTCCT GGAAGTTTC TTAAATTCA AAAGCCCTGC AGACATAGTA CCTGGTCAGA 120
ACTATGCCTC GGTATTATTA TCATTTTGAA ATAAATCAA AATTTCACC TGTAAG 176

SEQ ID NO:1216

SEQUENCE LENGTH:176

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01362

SEQUENCE DESCRIPTION:

GATCAAAACA ATTACCTAAT TGCAAAAGAG AACTGAAAT GGAACATAGT CTCANATTCT 60

NCTAATGTGT ATCTCACAAT GTCATGTAAT GTAAAGNAAA CCCTTTTGGA ATTAGAATTC 120
TTGTNCTGAA TGCTGAACTA TTTGGTAATA AAGTGCTTAT NTGCAGATAA CAGAAA 176

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SEQ ID NO:1217
SEQUENCE LENGTH:175
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS01363

SEQUENCE DESCRIPTION:

GATCTGTGCT GGGGAACAAA GCCTTTGCAG TACCTTATAT TGTAAGTAAA ATTTTATTTA 60
ACATATCCTT CAGTGAGCTC ATTCACACT GTAGCCTCTT CCTTAAAATT TGTGGTGCTC 120
CTGTAACAGT AAGANCTAAT TCTGAAATAA AAGACATCTC CTAATGCTGT GCAAA 175

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SEQ ID NO:1218
SEQUENCE LENGTH:174
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS01364

SEQUENCE DESCRIPTION:

GATCAGGATA ATAATCTGCT TAGTAAGAGA AACAAATTGA ATTTAGAAG GAAATTGCCT 60
TACCATTGTC AAATTAAGGT AATTAAAATA CAGTGAATTT CAAAATGCCT TTTAATGAC 120
AATGTGTGAA CTTAATTGT TTTAATAAAC CAAAATTGTT GTTATTGTGT TAAA 174

25

SEQ ID NO:1219
SEQUENCE LENGTH:174
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

30

CLONE:HUMGS01365

SEQUENCE DESCRIPTION:

GATCTGAGCA GGCAAAGCTC AAAAGAGAGT TTGGAGGTGA AAAATAATTT ATTTTGCAG 60
TAGTGTGCTT TGAATGTGT AAATCTTATT TCTAATGTAT ACAACCACAT TTCACATAAA 120
AATATGCAAT TTATATGCCA GATAAAAATA AAACAAGTGA ATTTGCAAGT GAAA 174

35

SEQ ID NO:1220
SEQUENCE LENGTH:173
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

40

CLONE:HUMGS01366

SEQUENCE DESCRIPTION:

GATCAACATG ATGGTGACTG GGAAAAAATT ACTTCAAGTA ACATGCTTAG CTTTCCCTCC 60
TTAATGTGAA AAATCAAGGG CTTACTGACA TAGGAACAAC AGAAATGCTC CTGGAACTTC 120
AAGTTGCTGA ATTATAAGTT TATTTTNNAT CAATAAATAT NNNNATACTN AAA 173

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SEQ ID NO:1221
SEQUENCE LENGTH:216

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01367

SEQUENCE DESCRIPTION:

GATCCATATT TAGTTTATT AAGCTTTTCC CTGTTTTTAG TTTTGTGTTG GGTGTTTTGG 60
 CTCATGAATT TNATTCTGT TTGTCGATAA GAAATGTAAG AGTGGAAATG TAATAAAATT 120
 CAGTTTAGTT CTGTAATGTC AAGAATTTAA GATTTAAAAA NCGGATTGGT TAAAAANTGC 180
 TTCATATTG AAAAAGCTGG GAATTGCTGT CTAAAA 216

SEQ ID NO:1222

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01368

SEQUENCE DESCRIPTION:

GATCGNCTCT GAACCATCCC NTTTCTGCTG CCCGGAGCTG GGGAAAGCTCG CTGTGGAGCG 60
 TCTCGCACGT GGCAGGCAGG CAGAGAACTT GCTGCACCTT CTAGGAAATT GCAATCGATT 120
 TGTAATGCAC TTTGCTAAT TGGGAGTTCA AAATTAAGT TTAATAAAGC AAA 173

SEQ ID NO:1223

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01369

SEQUENCE DESCRIPTION:

GATCTTAAGA GCAGACTTAA AGTAGCTTTG TACGCCTTAA TGTTCATTTT GATTTATTTT 60
 AAATCTTTAC ATTCAGAAAT NAGATACTGT ATTATCAGAC CAGGAGGCAT TGCTGTGAAA 120
 GATAATNTCC TATTCTAAAA TATCAAATTT AAAATAAAGA TAATGAAAGA AAACATAAA 179

SEQ ID NO:1224

SEQUENCE LENGTH:172

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01370

SEQUENCE DESCRIPTION:

GATCCAAAAA TGGTAGCCAC TCACCCTTCA CAAACTGAAG TCCATGGACC ACGGAAGTCG 60
 AGAATTAATG TACACCTGTA TCATGTGTAG GAAACCAGAA ATGTGTTCTT TATTNTTGT 120
 TCCCAAACAG GATTAAGTGT GAAGACTAAT TTATAAATGT GAACCTAAGA AA 172

SEQ ID NO:1225

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01371

SEQUENCE DESCRIPTION:

GATCAGCATG AGGACAGAAG GCAGGAGACT TTGGTCAGTT ACCTGGGAAT TCTGGGCTGC 60
 CAGGAAACGA TTTGGGCCTC TGTCAGTTTC TTTTCCATGT ATGAGGAGGG GGAAATTTGT 120
 ATATTAGAAA CTTATTCATC CCACTCAGGA CAATAAAAAAC GAATGTACAA AAAGCCAAA 179

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SEQ ID NO:1226
 SEQUENCE LENGTH:175
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01372

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SEQUENCE DESCRIPTION:
 GATCACAGTG GCCACGNCCA GGCACAGTC ATGGTGGCCA CGTCCACAGC CACTAATCAG 60
 MAGNCCAGGC CACCCTGCCT CTACCCAACC AGGGCCCCGN GGCCTGTTAT GTCAAACNT 120
 CTTGGCTGTG GGNCTAGGGA CTGGGGCCAA ATAAAGTCTC TTCCTCCAAG TNAAG 175

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SEQ ID NO:1227
 SEQUENCE LENGTH:318
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01373

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SEQUENCE DESCRIPTION:
 GATCTTTAAT CTCATGAAGT ACGACAGCTA CAGCCGCTTC TTAAAGTCTG ACTTGTTTTT 60
 AAAACACAAG CGAACCGAGG AAGAGGAAGA AGATTGCCT GATGCTCAA CTGCAGCTAA 120
 AAGAGCTTCC AGAATTTATA ACACATGAGC CCCCCAAAAG CCGGGACTGG CAGCTTTAAG 180
 AAGCAAAGGA ATTTCTCTC AGGACCGTGC CGGGTTTATC ATTGCTTTGT TATTTGTAAG 240
 GACTGAAATG TACAAAACCC TTCAATGGGA TGTGTGTTTT ATTAAGTCTC TCACCAGTAA 300
 ATTTTGCATG ATGGGCTN 318

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SEQ ID NO:1228
 SEQUENCE LENGTH:171
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01374

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SEQUENCE DESCRIPTION:
 GATCTGGAAG AGGCTTGTA CCTGAACTTC TGTGTGGTGG CAGTACTGTG GCCCACCAGT 60
 GTAATCTCCC TGGATTAAGG CATTCTNAAA ANCTTAGGCT TGGCCTCTTT CACAAATNAG 120
 GCCACGGCCT AAATAGGAAT NCCCTGGATT GTGGGNANGT GGGCGNAAGT N 171

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SEQ ID NO:1229
 SEQUENCE LENGTH:170
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01375

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SEQUENCE DESCRIPTION:
 GATCTGATGG TTTTAAAAAG AGGAGTTTCC CTGCTCAAGC TCTCTCTCTT TGCCTGCTGC 60
 CATCCATGTA AGATGTGACT TGCTCTCTCT TGCCATCTGC CATGATGTGA GGCTTCCCCA 120

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GCCACGTGGA ACTGTAAGTC CAATTAAACC TCTTTTCTTT GTAAATTAAA 170

SEQ ID NO:1230

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01377

SEQUENCE DESCRIPTION:

GATCCATGGT GTTAGAAGCC AGGGGAACAG TTAACAGGGG AGGGATACTG GGGAGGGGCA 60
TCCTGGAGTG CTGGTCTACC TCATCTGGGT GTTGATTCA TGAGTATTGT CAGTTTGTTC 120
CCGACTCCC TGTGGAGAT GTGAAATAA AAACCACCTA ANCANGNAAA 170

SEQ ID NO:1231

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01378

SEQUENCE DESCRIPTION:

GATCCATCAC AAAGCGAAGT CATGGGAGAG CCACACTTGA TGGTGAATA TAAACTTGGT 60
TTACTGTAAT AGTGTGCTGT TCATGGAAAC CGAGGGCTGC ATCTTGTTA TAGTCATCTT 120
TGTACTGTAA TTTGATGTAC ACAACATTAA AAGTACTGAC ACCTGAGAAA 170

SEQ ID NO:1232

SEQUENCE LENGTH:168

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01379

SEQUENCE DESCRIPTION:

GATCTGGGAT GGAATATGGT TTTCTTGATT CCCTTTCAGC CTTCAATTCT CTCTCTCAGG 60
ACTACTACTT TTTAATTACT TTTCACTTAA TTTCCCAATA CTGATGAAAT AAAGAAAAAT 120
GAGGGTTATT TATATACATT TCAATAAAAT CCAATTGAT TTTTCAAA 168

SEQ ID NO:1233

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01380

SEQUENCE DESCRIPTION:

GATCTAGAGA ACATAACAAA TGAAACTCTA GAAATTTGAA AGAAAAAAAA ACACTTAGCT 60
GTAAGTGCTT TGACCTATTT TTTTAAAAA AAAAAAACC TGTNTTAATT CTGTGACTGN 120
ATTGNACCCT TCACCAGCAC TANGNGAAGT NGGANTGGAN GAAATTN 167

SEQ ID NO:1234

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01381

SEQUENCE DESCRIPTION:

5 GATCAAGCCA TCGGAGCTGC TAGAGTTCCTG TCTGGACTTT CCAGAGACCA GTATTCCCTT 60
 TTGCTGCCCTC TAAAAGGCCT GTCCCTGCAG ACATGAGAGA CAGCAGGTCT CATGGGGGTG 120
 ACAAGCTTTT TTTTTTTT N TAAANGATT TCNAAANNNA ANTNCN 167

SEQ ID NO:1235

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SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01382

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SEQUENCE DESCRIPTION:

GATCTTTTGT CTTCCAGTCT TCTCTTAGTG TCCTGCTCCT AGGTTTCCT CTCTTCTGGT 60
 TCTTCTCCCA GGTATTCTCT TCCAGGCCT CTCTGGCCAC TGCTTTGTAT CAGGGTTTTT 120
 CACGCTTTTG TAGAACTGAG GTTTCAATAA ACAGTTTCAG TTGCAAA 167

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SEQ ID NO:1236

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25

CLONE:HUMGS01383

SEQUENCE DESCRIPTION:

30 GATCCTCCAG CCCACCACCA CATAGTAATC ACTGACACTG TGGGGTGTCT CAGCTGGGGT 60
 TCTGCTGTGT GTGTGTGTAT TTNACAAAAT ATGTATGGTT TCTGTTGAGC TCTTTTCAGT 120
 TAACAGATGA ACTGNNNTA TCATTAAATA TTTTGAAAA CATGAAA 167

SEQ ID NO:1237

SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

35

TOPOLOGY:linear

CLONE:HUMGS01384

SEQUENCE DESCRIPTION:

40 GATCCATCAG TAATGTAGCT AGCTGTAGAG CTTGCAACTT AATAGCAGCA GCTGCCCAAT 60
 GCCATGTNAA GTAACAACT GGTTTTGGT TTTTTTTTC CCCTTCAGTT TAAATGTNAT 120
 GTGNAATGTA TTAAACCCT TATTAAATA AANCTTGTT TCAGAAATAA A 171

SEQ ID NO:1238

45

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01385

SEQUENCE DESCRIPTION:

50 GATCTGGGGT TGGTCATGA CACCAGCTAC CAATTTNAGA ATATTATCC TNGGTTTCTT 60
 TATGAAAAAT GGGTGCTAGT GGTAATTCCT TNGTGGCTTA GTAACTACT CNTGGATGA 120

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TTTCCAAACA TTCAAAGCCA ATAGCCTNGT NATNAACAAG ANATTN

166

SEQ ID NO:1239

SEQUENCE LENGTH:165

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01386

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGGTCTACCT TCTGCTTCCC 60

TGGAAAGGAT GAATTACAT CATTGACAA GCCTATTTTC AAGTTATTG TTGTTTGGTT 120

GCTTGTTTT GTTTTGCAG CTAAATAAA AATTTCAAAT ACAA 165

SEQ ID NO:1240

SEQUENCE LENGTH:165

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01387

SEQUENCE DESCRIPTION:

GATCTGTCTG TGTTGTTATA TATTCTTTTA TGCATACTTA AAGTTAAAGG GTTTTATCCA 60

CTGTCAATTC AATTGGATAA CATTGTGCA AGTTTTTTTT TCCTGATTAT TTGATGTAGC 120

TGGATTCAAG AATGGATTGC CTNATCAATA AAGAATATTT AGAAA 165

SEQ ID NO:1241

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01388

SEQUENCE DESCRIPTION:

GATCCTATTT TGGGCTGGG GTGGGTATAC CTGNGGCTGG TCTTAGGAGG GTGCTAGGCT 60

GCAGACTGCC TTGTACTCCC TGGACACCCT CAAATGGGGT TTTCTGTGTT ATTCATAAA 120

ATTCCTTGAA GTCCAATAAA GCATGTAGGA GATTTTAACC ACTAAA 166

SEQ ID NO:1242

SEQUENCE LENGTH:164

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01389

SEQUENCE DESCRIPTION:

GATCAAAGGN CAAAAGACCA AAAATCAGCG GGCTGAGGAT GGAGCACAGC CATGAACCTG 60

CTCAGCAGAA GACGCACCCA TGCTTCTCAG GGTCAAGGCT TTATGTTAAA GCTTCCTGTC 120

GGGGCTGCTA GGTGAGCATT AAAGTAAGGC AACCAACAGT NAAA 164

SEQ ID NO:1243

SEQUENCE LENGTH:163

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01390

SEQUENCE DESCRIPTION:

5 GATCTGCTCA GTAATATAAT TTGCCATTTT TATTAGAAAT TTAATTTCTT CATGTGATGT 60
 CATGAAACTG TACATACTGC AGTGTGAATT TTTTGTGTTT GTTTTTTAAT CTTTGTAGTG 120
 TTACTTCCTG CAGTGAATTT GAATAAATGA GAAAAAATGC AAA 163

SEQ ID NO:1244

10 SEQUENCE LENGTH:163

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01391

15 SEQUENCE DESCRIPTION:

GATCTGGATT TGCTTTACCT TGTTAATATT ATCTAGGGGA AAAAGTGCAA ATTGCTCCAT 60
 GTTCTTCTCT CCCTTATGTA ACATCTCCTG AGGGTGTTTA GTTGCATGGC GTTTCAGAAA 120
 GGTATTAAGG GCTTAGGCCA AATCTTACTT TGAGTATGTT AAA 163

20 SEQ ID NO:1245

SEQUENCE LENGTH:162

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS01392

SEQUENCE DESCRIPTION:

30 GATCGTCAAA AAGAGAACCA AGAAATTCAT CCGGCACCAG TCAGACCGAT ATGTCAAAAT 60
 CAAGCGTAAC TGGTGGAAAC CCAGAGGCAT TGACAACAGG GTTCATAGAA GGTTCAGGG 120
 CCAGGTCTTG ATATGATGCC CAGCATTGGT TATAGGNGCA AA 162

SEQ ID NO:1246

SEQUENCE LENGTH:197

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS01393

SEQUENCE DESCRIPTION:

40 GATCTGGAAG TGAACACAGT TTATGTACAG GAAAAGGAT TTTATTATCC TTAGGAATGT 60
 CATCCAAGAC GTAGAGCTTG AATGTGACGT TATTAAAAA CAACAACAAA GAAGGCAGAG 120
 CCAGGATATA ACTAGAAAAA GGATGTCCTT TTTTTTTTTT TNNCNCCTCC TNIAANCNCT 180
 GNTGCTGCCT NANTTTN 197

SEQ ID NO:1247

45 SEQUENCE LENGTH:160

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01394

SEQUENCE DESCRIPTION:

50 GATCTCAATG CCAATCCTCC ATTCTTCCTC TCCAGATATT TTTGGGAGTG ACAAACATTC 60

55

TCTCATCCTA CTTAGCCTAC CTAGATTTCT CATGACGAGT TAATGCATGT CCGTGGTTGG 120
GTGCACCTGT AGTTCTGTTT ATTGGTCAGT GGAAATGAAA 160

5

SEQ ID NO:1248

SEQUENCE LENGTH:160

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS01395

SEQUENCE DESCRIPTION:

GATCTGAAAA TCGACCTCAA CTCAAGGGTG GTCAGCTCAA TGCTACACAG AGCACGGACT 60

TTTGGATTCT TTGCAGTACT TTGAATTTAT TTTTCTACCT ATATATGTTT TATATGCTGC 120

TGGTGCTCCA TTAAAGTTT ACTCTGTGTT GCACTATAAA 160

15

SEQ ID NO:1249

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

20

TOPOLOGY:linear

CLONE:HUMGS01396

SEQUENCE DESCRIPTION:

GATCTGCATG ACCTATAATC TTTGAACCAC TTTCTGACCT CATGTTTTTA TCCAGCACTC 60

TTATTGTAAT ATGTACTAGT CTGTGAACAA TGTCAAATAA AAGAGAACGA ACAGGTAGTT 120

TGGTGGAGCT GAGCTAGTGT ACAATACACT AGTTGTAAA 159

25

SEQ ID NO:1250

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

30

TOPOLOGY:linear

CLONE:HUMGS01397

SEQUENCE DESCRIPTION:

GATCTTGGA TTTCTGTNTG GATTTCACA GTTTTAAAA TTAATCATGT CAGCCCAATG 60

CAGCTGTGTC ATTGCCACCT AGTGGTAAAA CTAACATTAC TGTTAAGCTG TGTGATTTTA 120

AACTTGAATC CCCAGTAAAN GGTTCACGT TCTGTGAAA 159

35

SEQ ID NO:1251

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

40

TOPOLOGY:linear

CLONE:HUMGS01398

SEQUENCE DESCRIPTION:

GATCCCTCTG AGAGTTGATG AGGATGTGTA ACAAGTATTT NCTTCTATNG TGCCTGCCAG 60

GGCTGAAGCT GCCTGGTATC CAGGAGGGGA ATGCTGGTAT CCCCATATGN CTGTNTTGT 120

TTGAGATTTT TAATAATAAA TAATAAATTT TTGAAGAAA 159

45

SEQ ID NO:1252

SEQUENCE LENGTH:158

50

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01400

SEQUENCE DESCRIPTION:

GATCCTATTG TTGTAATAAT ATTTGTATGT ATGCACAGAA ATCTGCAAAG ATGTACACTT 60
AGTGAAGTGG TTACCAACGA ATGGTGGGAC TAACTAAAT GGTCTTTTTA CTTATATGTG 120
CATTCTTTT TATAATAAAA ATGGGTTATA TGCCTAAA 158

SEQ ID NO:1253

SEQUENCE LENGTH:158

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01401

SEQUENCE DESCRIPTION:

GATCTGCCCT GTGTATCCA GTTATGAGAT AAAAAATGAA TATAAGAGTG CTTGTCATTA 60
TAAAAGTTTC CTTTTTATT CTCTCAAGCC ACCAGCTGCC AGCCACCAGC AGCCAGCTGC 120
CAGCCTAGCT TTNCCCNTT TTTTTTTTT NNNCNTN 158

SEQ ID NO:1254

SEQUENCE LENGTH:157

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01402

SEQUENCE DESCRIPTION:

GATCTCAATC TTCGGGGTGT GATGAATAGC GAATCATCTC AAATCCTTGA GCACTCAGTC 60
TAGTGAAGAT GTTGTCATTA TGTACAATAC ATAAGTAGTT TAATTAATA TGTGATGTTA 120
ACTATTATTA ATAAATTTA ACATTTTCCA AAATAAA 157

SEQ ID NO:1255

SEQUENCE LENGTH:157

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01403

SEQUENCE DESCRIPTION:

GATCCGGATG NGGGGAGCTC TGTACAGAGG GCTGGTGATT GTAAAAATT CTTTGTAAA 60
GTAGAAGTTG GGGGTGGGGT GGGTGCTGGC TGCAAAATTT TCTGGCTTCT CTTACCCCTA 120
TTGCCCCCGG CAATAAATTG TTTCTATATG CCAGAAA 157

SEQ ID NO:1256

SEQUENCE LENGTH:160

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01404

SEQUENCE DESCRIPTION:

GATCTTATTT GGAATTGACA TTCTCTATTG TAATTTTNTT CCTGTTTATT TTAAATTTN 60

CTTTTGTGTT CACTGGAAG GAAAGATGAT GCTCAGTTT AAACGTAAA AGTGACAAG 120
 TTGCTTGTGTT ACAATAAAC TAAATGTGTA CACAAAGAAA 160

5 SEQ ID NO:1257
 SEQUENCE LENGTH:156
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01405

10 SEQUENCE DESCRIPTION:
 GATCTTTGTN CTTGACCTCT AGACCCCAAG ATGTGAACAG TGCACGTTT AATGTCATCT 60
 TTNCTCATGT GTTATAAGCC CCAAGTTGCT GTATATTNC ACAAGTATGT CTACACACTG 120
 GTCATGATT TNATAATAA TAACGATAAA TCGAAA 156

15 SEQ ID NO:1258
 SEQUENCE LENGTH:155
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 20 CLONE:HUMGS01406

SEQUENCE DESCRIPTION:
 GATCTTGCTC TGATTATAAT GCCAGTGAAT GTTGCTGAAC TCTTTGTATA TGCAAATTGC 60
 AAGATTTAAA CCATTCTGAT GCAAGGATAA ACCTTTACTT TGACTACCAG CCTGTGTTTT 120
 25 TGCTTTAAA TCTCTTAATT TCATCTCTCT GCAAA 155

SEQ ID NO:1259
 SEQUENCE LENGTH:155
 SEQUENCE TYPE:nucleic acid
 30 TOPOLOGY:linear
 CLONE:HUMGS01407

SEQUENCE DESCRIPTION:
 GATCTGCACT CCCACTCCC CCACACTTCC CAAAGTGCTG GGATTACAGG CATAAGCCAC 60
 35 AAGCCACCTC ACCCAGCCAA CATGTTACAT CTTAATTCTT GGATTTTCTT CACTGCAGGG 120
 CTTTGGGTGG AGAAATAAAA CTCTCAAAT GCAAA 155

SEQ ID NO:1260
 SEQUENCE LENGTH:155
 SEQUENCE TYPE:nucleic acid
 40 TOPOLOGY:linear
 CLONE:HUMGS01408

SEQUENCE DESCRIPTION:
 GATCTGGGAG TGCTGGACGT CATCTCCAC CNCACCCAGC CGTGGGTCTT CTCCTCGGGG 60
 45 GCAGACGGGA CTGTCCGCCT CTTACCTAG CTGTTCTGCC TGCCTGGGGC TGGGGTGGTC 120
 GTGCTGAAGT CAACAGAGCC TTTACCCTGT GCAAA 155

SEQ ID NO:1261
 SEQUENCE LENGTH:158

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01409

SEQUENCE DESCRIPTION:

GATCTTGGAG GCCAGCCAGC TGAAGGAGAC ACTGCAGGCG GTGCCCCAAGC CAGGGGCCTT 60
TGACCTGGAG CAGGTGAAGC GTTCCACCTA CTTNTTCAGC TGACACCCCG TGAGCCTTGT 120
CAGTGTGTAA ATAAAGCTCT TTTGCCACCC CCAGGAAA 158

SEQ ID NO:1262

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01410

SEQUENCE DESCRIPTION:

GATCCATCAT NGATGTAAAA GTTCACAATC ATGGTTCAAA TGTAACAGTG CAGAATTGAA 60
TATGGAGGCA TGCATAACCT TCCTCTTAGA AAATGGCAGG TGTGTAAATT TCAAAATTTT 120
GTGCAATTAG ATTAAATCAT AATGCAACAA A 151

SEQ ID NO:1263

SEQUENCE LENGTH:154

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01411

SEQUENCE DESCRIPTION:

GATCTGATGG GTTATCAGG GGTTTCCACT TTTGTTTCTT CATTTTCTCT TGCCACCAGC 60
ATGTAAGAAG TGCCTTTGGT CTCCTACCAT GATTCTGAGG CCTCCCTAGC CATGTGGAAC 120
TGTAAGGCCA ATTAAACCTC TTTTCTTCC CAAA 154

SEQ ID NO:1264

SEQUENCE LENGTH:154

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01412

SEQUENCE DESCRIPTION:

GATCAGCACC TTGTATAGGA ATTCCCATGA ATTATGACTT CTCATTCTGT TTTATCAGAG 60
TGCATATATG TCCTACTTCA GGAAGTAA AACAGTCATT TACGAAAGAA AGTCAATCTG 120
TATCCTAAGC ATTTAATAA AAAGTAAAA CAAA 154

SEQ ID NO:1265

SEQUENCE LENGTH:153

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01413

SEQUENCE DESCRIPTION:

GATCTGGCC TGAGAATTGA GGGGAGGTGG CCAGCCCGCA GAGGTGGGGT GCTGGGGCTG 60

CATGATTTTN GCCCTGCGTC CCTTCTCTTT GGGGCTCCTT TCCCCTCTCA TACATAAAAT 120
CGCTTTCAAA TTAAATCGC TGTCTTCTGG AAA 153

5 SEQ ID NO:1266
SEQUENCE LENGTH:163
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01414

10 SEQUENCE DESCRIPTION:
GATCCGAGTG AAGCCCCAGG TCTCANAGAG CAAGCTGTAG CCAGATGGTA CCAGCTTCGC 60
CTGGGGCTTC AAGAACCTCC CATCTATCCC CATTCTGAN ACAGGGAGTT ACAGTCCCTT 120
TTTGCCCTC ACATNCAATA AANGTGACTG ATANCACTGG AAA 163

15 SEQ ID NO:1267
SEQUENCE LENGTH:153
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01415

20 SEQUENCE DESCRIPTION:
GATCTGGCAA CACGTTTTNN TTGGAATATT TGTGTTTTCT TGAGGAGGTA TAATTACTGT 60
ATCCTAGGTG TGAATTTTGG AGTGCAGATG CACATTTTAA AGAAATNATG ATTAANCTGA 120
25 TAATGTTTTT NGGCTGAAAA TATAAANNA AAN 153

SEQ ID NO:1268
SEQUENCE LENGTH:152
SEQUENCE TYPE:nucleic acid
30 TOPOLOGY:linear
CLONE:HUMGS01416

SEQUENCE DESCRIPTION:
GATCATAAAT CAAGGAATGC TGACAGCCAC TAAAGCTGGA GAAGGCCAAG GACAGATATT 60
35 CAATCCTCCC GTAGAAGTAC AGCCCTGCTA ATGCATTGAT TTTGGACTTC TGGCCTCAGA 120
ACTGTAAGAG AATAAATTC TATTGTTTTA AA 152

SEQ ID NO:1269
SEQUENCE LENGTH:152
40 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01417

SEQUENCE DESCRIPTION:
45 GATCAGACCA ACAGTGCTGT TTCCCGGGAG GAACACTTTT TNATTNTTAC CCTTTGCAGC 60
TCCCACCTTT AATCTGTTTT ATACCTTGCT TATTAAATNN GCGCTTAAAT NATTGAAATA 120
ATGCTGNCTT AGTAGCAACT AAAATGTGNC TN 152

50 SEQ ID NO:1270
SEQUENCE LENGTH:156

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01418

SEQUENCE DESCRIPTION:

GATCCCCCT ACCCACCCA GTCCCAAATC CAGTCCTCTG GCCCTTGCCT AGCCCTGAAT 60
TGCTTCTCTA AGCTGGTGTT CCCATGCACA GGGCCATTCA GGAAGGGCTG GGGGAGTGTG 120
TGTGGCAATA AAGCTTGAAG GCACCGTGGG AGCAAA 156

SEQ ID NO:1271

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01419

SEQUENCE DESCRIPTION:

GATCCTCTTC TCTCCAAATG TTAGCCATCC TGAAGTAGCC GAACAGTAGA AACTTTGGTG 60
GGGATTAAAC GGGAGCTTGA AAATTTGTNT TTGGTAACCT GATACTGGAC AGCTGAACTG 120
AATGGCTGCA AAATAAATAC CTCACATGAA A 151

SEQ ID NO:1272

SEQUENCE LENGTH:93

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01420

SEQUENCE DESCRIPTION:

GATCCTGGAG GACCCTGGGC CCCAGGCCAG CTCCCATCGC TGGGGGACGG TGAACGGCCA 60
TGTGTAAATG TTACGATGTT TTTAAAAGAC AAA 93

SEQ ID NO:1273

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01421

SEQUENCE DESCRIPTION:

GATCCCCTTT GTCAGTGGGG AAACCAAGGC AGAGCTGAGG GGACAGGGAG GAGCAGAAGC 60
CATCAAGATG GTCAAAGGGC CTGCAGAGGG AGATGTGGCC CTTCTCCCC CTCATTGAGG 120
ACTTAATAAA TTGGATTNAT GACACCAAA 149

SEQ ID NO:1274

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01422

SEQUENCE DESCRIPTION:

GATCTCAACG TGCTGATATG GAAAGTGCTT CAGAATGTAT TAAGGACATA AATTAAAGTGT 60
ACAATAATGT GTGTGTGTGT ATATATGTAT ATGCTTACGT GTGTATGGAA AGTATCTCAG 120

CAGATACAAT AAAAATTAA TTGTGATTAA A

151

SEQ ID NO:1275

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01423

SEQUENCE DESCRIPTION:

GATCCTCCCT CTATTTTGCA AACAGTCTGT AAGTAACTNA TAAACTTTA AAATATGCAA 60

ATTTTAAAT TATATAGTTT GATTACTCA TCAAATTATC ATGTATGCTG TTATTTAAGT 120

ATGAATAAAG GCTTTTTTAA ATNGGGAAA 149

SEQ ID NO:1276

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01424

SEQUENCE DESCRIPTION:

GATCCTACTC CTTTGAGTA AAAC TAGTGC TTACCACTT CCAATTGTAT TTAGCTTCTG 60

GTTGGAATTT GAAAAAAGA AAAAGAAAAC CTAAATAAAA TAGGTGAAAG 120

TTCCCTGACT ATTCAGGTGA ATACACAAAG TTTGAAGTGT TAACTTTTTC TTTCCATTTC 180

ACTGATGTTA CTGGTCACCT TAGAGAATTA TTTCATAGTC TGTGGCTAAA TAGTAAATTC 240

AGANGAAAAA TAAA 254

SEQ ID NO:1277

SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01426

SEQUENCE DESCRIPTION:

GATCCTACTG TTGAGTTAGG AAAATATGGT TAGACAGACT CACATTACTT TTTTCAGAG 60

GTAAACTCTA GATTACTGTG TCAACCCAAT ACTATTGGC CATAGATGTA AAAACTACCA 120

AATAAAAGTG GATTTTGTGG TCTACAAA 148

SEQ ID NO:1278

SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01427

SEQUENCE DESCRIPTION:

GATCCACAGT GGAGTCTCAG TAATTATATC TCCTTGATT CTTCATTTC TCTTCTGCTA 60

TAAAAGTAGA GATAATGTGT AGTCACTNCT CATTAGTGA ACCAATTGTN ATANTTCTGG 120

AAATCTNTTN TCTTAAAGTG TAAATANN 148

SEQ ID NO:1279

SEQUENCE LENGTH:124

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01428

SEQUENCE DESCRIPTION:

GATCCCAATC AGATTCCCGC TAATGGAAGA AGTTTAGAAT CTTTCAGGTG GAATAAAGTC 60
 ACATGAAAAC AAAACACAAC TATATATATT TCCAGTTTTT TTGCCTTATT GATTTTTTNC 120
 CAAA 124

SEQ ID NO:1280

SEQUENCE LENGTH:147

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01429

SEQUENCE DESCRIPTION:

GATCTTTGGG GAGATACATC TTATAGAGTT AGAAATAGAA TCTGAATTTC TAAAGGGAGA 60
 TTCTGGCTTG GGAAGTACAT GTAGGAGTTA ATCCCTGTGT AGACTGTTGT AAAGAAACTG 120
 TTGAAAATAA AGAGAAGCAA TGTGAAA 147

SEQ ID NO:1281

SEQUENCE LENGTH:147

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01430

SEQUENCE DESCRIPTION:

GATCCTGACA CTAAGGAATG CTGAAGCTTT GGAATTCCGC AGTCTCCAC CTTCAGTCAT 60
 CAGCTACAGT TGGAATGAAT TTNAACCGC TCGGGACCTG TTAATNTNTC CTGTAGNCTG 120
 TATTATNTNA AAAATCTGGG CAACAAA 147

SEQ ID NO:1282

SEQUENCE LENGTH:147

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01431

SEQUENCE DESCRIPTION:

GATCTCGCTC CCCCTTCGG TTCTTTCGAC CGGTCCCCC TCCCTTTTTT GTTCTGTTTT 60
 GTTTGTTTT GCTACGAGTC CACATTCCTG TTTGTAATCC TTGGTTCGCC CGGTTTTCTG 120
 TTTTCAGTAA AGTCTCGTTA CGCCAAA 147

SEQ ID NO:1283

SEQUENCE LENGTH:146

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01432

SEQUENCE DESCRIPTION:

GATCTCAGTT CCTGGCTTTC CCCCCAGCCT TCTCACCCTT TGTGTCTGTG TAGTGATTG 60
GTGAGAAATC GTTGCTGACC CTTCCCCAGA CCATTATGA GTCNAAGTTT ATTATTCAAT 120
AAAAGTGCTN TATGCGCTTT CTCAAA 146

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SEQ ID NO:1284
SEQUENCE LENGTH:146
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10

CLONE:HUMGS01433
SEQUENCE DESCRIPTION:
GATCCAAAGA TGAGGGGATT NTTTCAGAAA GACAATCTCG GCATGCATTA TTTCTTTNNT 60
TTGAAGATTC ACTCATGTTG CATGCATCTN TAGCTTGTC CTTTTAATT CCTAGTAGAT 120
TCTGTCATAT GCCTATCTNC AATTNN 146

15

SEQ ID NO:1285
SEQUENCE LENGTH:167
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

20

CLONE:HUMGS01434
SEQUENCE DESCRIPTION:
GATCCCCATG CTAAGAAAAT GCCCAAAAAA ATAGGCAAAA CACGAGAAGA GCTAGGGTAA 60
GAGAAGGACG TAAACAGAAC CTGACACCAG CTCCTTTTCC TTCTATACAT TATTTAATAC 120
CTATTAAATA AAATNATTTT TGAATAAAG CTTGTGGGAA CATTAAA 167

25

SEQ ID NO:1286
SEQUENCE LENGTH:179
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01435

30

SEQUENCE DESCRIPTION:
GATCAAAAAG GCTTATAAAA CAGAGTAATC TTGTTGGTTC ACNCTTGNGA CCGTGAAGAT 60
ACTTTGTATT GTCCTATTAG TGTTATATGN ACATNCAAAT GCATCTTNCA TGTGTTGTTC 120
TTGGCAACAA ATTTTGAAAA GTAATATTTA TTAAATNTTT TTGTATGCAA ACATGCAAA 179

35

SEQ ID NO:1287
SEQUENCE LENGTH:145
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01436

40

SEQUENCE DESCRIPTION:
GATCCGATGG GAGTGTAAT GTGAGACACA ATGTCTTGAT TATACCTGTT TGTGGTTTAG 60
CTTTGTATTT AAATAAGGAA ATAACTTGA AAATNATTG TCATCATAAA AATGAAACAA 120
ATNAAAATAT TTATTGCCAG GCAAA 145

45

SEQ ID NO:1288

50

55

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01437

SEQUENCE DESCRIPTION:

GATCAGGGCA TGCAACCAAA AGCAGCTTAA ATGAAATATT TAAAAATAAA ATATCAGGAA 60
GCTATTTTGA GATTCTNCT GGCTTATGTT TCTACTTTAG GACCCTCATT GTNCTCTTAT 120
TAAAAAAAAT TATTCCTGT GCAAA 145

SEQ ID NO:1289

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01438

SEQUENCE DESCRIPTION:

GATCAGATTT TTTTGTACC TACGTAAGAG TACTTGAAGT TTTATTTAAA ATAAAATGTT 60
GTGGAAGAG TAGCATTCTT TTTTAGGAG TGTATTTTT CACTATGTGT GGCACGGATA 120
CAATAAAGA CTTTACAAA CTAAG 145

SEQ ID NO:1290

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01439

SEQUENCE DESCRIPTION:

GATCCAGGG CTCCTGCCA TTTTAGTGTC TTGGTGTAGT GTAACCATTT AGTGGTTGGT 60
GCCATTTTT TTTTGTNCA AATGATTAA ATNATTGGAA TNCACAATTT TTAAATATN 120
CAAATAAAN GTTAAAAACC TTAAA 145

SEQ ID NO:1291

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01440

SEQUENCE DESCRIPTION:

GATCAGGAAT TCTAAATAAA TTTCCAGTT AAAGATTATT GTGACTTCAC TGTATATAAA 60
CATATTTTGA TACTTTATTG AAAGGGGACA CCTGTACATT CTTCCATCAT CACTGTAAAG 120
ACAAATAAAT GATTATATTN ACAA 145

SEQ ID NO:1292

SEQUENCE LENGTH:144

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01441

SEQUENCE DESCRIPTION:

GATCTGCCAG CACCCTGTGG GGGCCAGACT ACAGGCTGAT GCGGGAGGCT TCGAGTGACC 60
 CGGGTGCCGA GGAGCGGGAA GAGTTGCTGG GGTAAGGGTC TCGGGCGACG CCGGCGCCCT 120
 GTGCCGTGTC CACGGGTGCA TAAA 144

5 SEQ ID NO:1293
 SEQUENCE LENGTH:144
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

10 CLONE:HUMGS01442
 SEQUENCE DESCRIPTION:
 GATCTAAATA TTTNNAGCT GAGTTATTAG GGAGTCATTA TTCTGTGGTA CAATGCTGCA 60
 AAAAGCATCA TGTGGAAGAA TGGGAACAT GCTTACTTTA TGAAGTGATG TATAACACAA 120
 TGAATCTGT TTTACAACTA CAAA 144

15 SEQ ID NO:1294
 SEQUENCE LENGTH:372
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

20 CLONE:HUMGS01443
 SEQUENCE DESCRIPTION:
 GATCTTGGTA GTATCCCTGG CTGCTAAGCC TATGGCAGGG GTGGTCCTTT CTACATTCCC 60
 25 ATTCACCTAA CAGCTCTTTT GGGATTGGGT GTTTCATTCC ATTTCTGCCC ACTCCCTCTC 120
 CTCTCCTCTC TGGTAGGTTT AATTTATGC TTTCCCTGAT TCCAGCTTTC TGCTTCCTGA 180
 GGACTCCCGC TCCCNCCACC CCAAAGTTTG TCTGTGGGTG TTATAGTGGT AACTGCAGTT 240
 CCCTCCTCTG GGAATNGTAG GCTGTAATAG GNTTAATAAA CTCNACNTNC TCTAATCNTT 300
 GCTNAAAANG TGGGGGTAA N GGGGATGGCN TTGNCCCNNG GTGGGAAANT TAAANNTGGT 360
 30 GTTTANGGNA AA 372

35 SEQ ID NO:1295
 SEQUENCE LENGTH:145
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS01444
 SEQUENCE DESCRIPTION:
 GATCTTCTCT GTGGGGGAAA AGGAAGAGGA GGGTCTTGT CTCCANTNT GTTATTCTT 60
 40 TGGGCTCTGG GAACAGGGGA CTACTTTGGG GCTTTCTCCA ATNCTNTTGT ATGNTGTTAT 120
 TAAAAGCGAG CTATTGCATT TCAAA 145

45 SEQ ID NO:1296
 SEQUENCE LENGTH:141
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS01445
 SEQUENCE DESCRIPTION:
 50 GATCTTATAT CCTGTGACCT GTCTAAATTC AATCTGTTAG TTTTATCATT TTTAAAAAA 60

ATGTCCGTGT GTGTCTTCCT TGAGATTTTC TACATTATCA TGTCATCTGC ANATAAAGAC 120
ATTTACTTCT TTCTTTCCAA A 141

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SEQ ID NO:1297
SEQUENCE LENGTH:141
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10

CLONE:HUMGS01446
SEQUENCE DESCRIPTION:
GATCCAGTTG TACTAAGGTG TACAGGATAT TTGCAGATAT AGGTAACTG AATGAAGCAT 60
ATTAATAACT GCATTTCCT AACTTTGAAA AATTTTNCAA ATGTCTAGGT GATTAAAAA 120
ATGAGATTGG GCTATTGCAA A 141

15

SEQ ID NO:1298
SEQUENCE LENGTH:140
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01447

20

SEQUENCE DESCRIPTION:
GATCTAAAAT AGATATGTTG GATTGATATT CTCACGTGTT CGGTGTGGAA AACAAAACAA 60
GTACATGCTT TAGAAGCAAC AACAATGAAA TCCTTTTGAA ATNTGTGTTA ATATCGTTTA 120
NTAAAATACC TAGTTTGAAA 140

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SEQ ID NO:1299
SEQUENCE LENGTH:140
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01448

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SEQUENCE DESCRIPTION:
GATCCATAGA AGGGCTTCCC AAACCTTGTT TTGCAACATC CCAAATTGTC TCCAGTTGAA 60
GGAAGGCCTT TATCAGATTC ATAGATGAGC TTTCATTGTA AAAATAAATG TACTTTGCAC 120
CACTTCATGA TGGAGGGAAA 140

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SEQ ID NO:1300
SEQUENCE LENGTH:140
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01449

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SEQUENCE DESCRIPTION:
GATCTGAGGT TTTTAGATT TAAATATTTA TGTGGAATTA ATTAAAGGTA GTTGGCTATA 60
TCGCTATCAT TTCATTCITT TGACATTATT TGAATATTTT ACTGGAAAAT AAGACTAATA 120
AATTGTTAAA AGTTTTTAAA 140

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SEQ ID NO:1301
SEQUENCE LENGTH:139

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01450

SEQUENCE DESCRIPTION:

GATCTTCACA AAGTTGTCTT TTCACTGTGT TTTGTCAACG TGAAATTAAA TTGTAGTTAT 60
AAGCAAAAAGT TGGTTGCCTA GGGAACAATT GTATATNCAG TTAAACAGAA ATAAAAGAAT 120
ATTTGTCTTA AGATGCAAA 139

SEQ ID NO:1302

SEQUENCE LENGTH:138

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01451

SEQUENCE DESCRIPTION:

GATCGNCACA TTTCCCAAAA ATAATAAAAA AATCACTAAC CTTTTTTAAG GAAAATATTT 60
AAAGTTTTAC AAAATTCAAT ATTGCAATNA TCAATGTAAA GTACATTNA NTGCCTTATN 120
AAAACTTTCC CAATTAAA 138

SEQ ID NO:1303

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01452

SEQUENCE DESCRIPTION:

GATCATTTTT TCGGTCTCCG AGGTGAAATG ACTTATTAAT TAAAATTTGT AAACACACAT 60
ATGCATATTG TATATGTGA GAAATGTAAT CACACTTTGT CTTGGAATTA CATTAAACTG 120
TTTGAAATCA CTGTAAA 137

SEQ ID NO:1304

SEQUENCE LENGTH:136

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01453

SEQUENCE DESCRIPTION:

GATCTTTTTG TGATTGCTTT CCCGTCTCTA AGTAGTATTC TGTGTGTCT AGAGAACTGA 60
TTTTTTCCTA CATACGCAAA TTGTACATT GTAAGTGAAA ATNTCAATAC ATTTAAAGCA 120
TTANCCTAAA ANCAAA 136

SEQ ID NO:1305

SEQUENCE LENGTH:136

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01454

SEQUENCE DESCRIPTION:

GATCAGCTGG GTTTGGCCA GGAAGTTGTC TTTGTGGACT CTGCCTGCAT GGCTTAGTAG 60

TTGAAGGAAA TTTTTTTTGG GTTTTGTTTT TTATAATTCA GTTAAATCAA TAAACATGTA 120
TTTATTGACT GTTAAA 136

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SEQ ID NO:1306
SEQUENCE LENGTH:136
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS01455
SEQUENCE DESCRIPTION:
GATCCCTTTA TGAGTTTTCG TATTTTGGA TGCTACATGT AAGTTTGGCT TAATGTTTT 60
ATGTAAAGCA TCTCCTCCT TTTACTTCTT TTATTGTGAT AAAACTCATA TAAATTTGAC 120
CGTTTGAAG TGTAAA 136

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SEQ ID NO:1307
SEQUENCE LENGTH:136
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS01456
SEQUENCE DESCRIPTION:
GATCTGGGCC CGACCCTCAC TACCCCTGAG ATATTAGTTC CCAGGCCTGT TTTCCACAG 60
GATTGTGGG TCTCTGCTTC CTTAGTCGGA AGTNTTTTCA ACTAATCAAA TAAATGAATG 120
AATGATGAAT AAGAAA 136

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SEQ ID NO:1308
SEQUENCE LENGTH:135
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS01457
SEQUENCE DESCRIPTION:
GATCCCAAAG ATATTAAATA TATGCAAATA TTCCAAAGTC TGAAAAATC CAACATCCAA 60
AAACACTTCT GACCCAAGCA TTTCAGATAA GGGACCAGAA TTATTAGATT AAATAAGGTA 120
TATTATTAAG TTAAA 135

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SEQ ID NO:1309
SEQUENCE LENGTH:135
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS01458
SEQUENCE DESCRIPTION:
GATCAGGCCA AGAGGTTGCA CAGGGCATGA TACTGCACCC TGCCTGACCC AGCTGGGCTC 60
ACAGGTCAGG GGAGAGTTGG GGCAGGTGAA TGTCAGCATC AGGCTTCTNN TTTAAACTT 120
TTAAANAAAT ACAA 135

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SEQ ID NO:1310
SEQUENCE LENGTH:135

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01459

SEQUENCE DESCRIPTION:

GATCCTGCCT CAAAAAAAC AAAAAATTC TTTATTTTCT CCATAAACTA CAGTTTATAT 60
AAGCAAAAGT TTCAGTACTA AGCAATTNA GTCTCTGCAG TCTCTNGTNT TGANTTAATA 120
CAACTTTNGT NAATN 135

SEQ ID NO:1311

SEQUENCE LENGTH:139

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01460

SEQUENCE DESCRIPTION:

GATCTACCTG TGGCCCGGCC TCCCTAATGT NATTCACATT GAATGGGGAT GAGGTCGGAC 60
AGTGGCTCAT AGAGCGAGTA TGAGCCCTAG CTGTGGGCTA GAAATNTCCT TAATAAACAT 120
CCTTATTTTC NTNTTAAA 139

SEQ ID NO:1312

SEQUENCE LENGTH:134

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01461

SEQUENCE DESCRIPTION:

GATCCTAGTA TGTGATAGC TTTNATTTG TGAGTGGTTT ACTAGTCATT TATTATGATT 60
CCCATGANCT CTGATATGAT TCATTGTGGT TTTAACTCAG GTTGAATAAA AGCATCCATT 120
TCITTTATAG GAAA 134

SEQ ID NO:1313

SEQUENCE LENGTH:237

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01462

SEQUENCE DESCRIPTION:

GATCTCAAGG TTGATAGTGG TGITCACTAG GAGACGTGGA ATTGAGACTA ATAACTTGGA 60
TGTTAACTACT GTTTACTGTT TTTTCACATG TAGAAATGTT CTTTGTGTAT TTTTCTACA 120
GAGGATTTTC TCTGATTTTA TTTTCTTTGT TTCTGACTCT AATAATTAGT TGGAACTCA 180
TATAAAATGA GCTTTCCTAA ATTAATCTA TTTTAAATAA AGGTATTATAC TATTAAA 237

SEQ ID NO:1314

SEQUENCE LENGTH:134

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01463

SEQUENCE DESCRIPTION:

GATCTATAGG TTTATTAGAA NCCTNACCAC AGNATCCAGA TTATCTTCAG TATTCTNTCA 60
 GTACAGCTCT CTGCAGCTTA AACTCGGTGG TACATAAAGA AGATGATGAA CCCAAATGN 120
 TGGNCACTGT ATAN 134

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SEQ ID NO:1315
 SEQUENCE LENGTH:133
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01464

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SEQUENCE DESCRIPTION:
 GATCAGAAAA TCCCTCTGAC ATCTCCACTG CCCCCAAAGA CCTCCGTTGA ACATTCTGTA 60
 TGGAAAAGAG CCCTGGAGCA TCAGGTTCCC CAGATAGGCC CCCAAATAAA GACCTGTCTA 120
 TGGCTCTCCC AAA 133

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SEQ ID NO:1316
 SEQUENCE LENGTH:132
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01466

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SEQUENCE DESCRIPTION:
 GATCTAGCTG GCTGTAGTAT TGCNTTGATA ATTTTTTCT TTAAATTTAC CTAATATATA 60
 TAAGGAAGGG GTTTGGATAT ATTAAATAG GTGTTAATTT TATCTATTTA CCAATAAATT 120
 CATCTCTTTA AA 132

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SEQ ID NO:1317
 SEQUENCE LENGTH:130
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01467

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SEQUENCE DESCRIPTION:
 GATCCAGCCA TTCCTGAAGC CCACCCTGCA CCTCATTCCA ACTCCTACCG CGATACAGAC 60
 CCACAGAGTG CCATCCCTGA GAGACCAGAC CGTTCCCCA TACTCTCCTA AAATAACAT 120
 GAAGCACAAA 130

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SEQ ID NO:1318
 SEQUENCE LENGTH:130
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01468

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SEQUENCE DESCRIPTION:
 GATCTAAAAG CCAACTTTTT CTCAGTNTTA CTCAGTGGAA AGATAAACTA AGTTTTAATG 60
 TTATNTTTTT AAATNTAAGC AAAATTTATT TCTGTNCTNT AATAAATAAG AAAATGTGGT 120
 CCACTGCAAA 130

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SEQ ID NO:1319

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SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01469

SEQUENCE DESCRIPTION:

GATCCCCTGC TCCTGTTGTG TTCTGTTGTA AATCATTGG CGAGACTGTA TTTTAGTAAC 60

TGCTGCCTAA CTTCCCTGTG TTCTATTGA GAGGCGCCTG TCTGGATAAA GTTGTCTTGA 120

AATTCAAA

129

SEQ ID NO:1320

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01470

SEQUENCE DESCRIPTION:

GATCAGAAAT TTAAAGCAG AATTTGTCA AAAGGGTCAT TTTTGTCT ACCCCTTTA 60

CACTTTTCAG ATTCTCAAAG TGTCTCATCT CAACTTTAA AAGAATAAAG AATATCTTGC 120

TGGGCAAA

128

SEQ ID NO:1321

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01471

SEQUENCE DESCRIPTION:

GATCCTTGTC AGATGAAAAT GGATTCACAG CTCTGGCAGT TCCCAATGTC TGGGGAGGGG 60

TATAGGTTTG AAAGGCTGT TGAAGAGGA ATGTTAATA AAGGCTTTGA TTAAATCTTG 120

AAAAGAAA

128

SEQ ID NO:1322

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01472

SEQUENCE DESCRIPTION:

GATCTCGAAG TNACTCCGGG CTGAGCAGTG GGGCGGCTGG GGGAGGGGTG ACGATTCTCC 60

TCAGGCTTTG GCCCTGCAAG CAAACCCACA TATCTNCTCT GTATGTAATA AATNTNTTAA 120

CGTCGAAA

128

SEQ ID NO:1323

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01473

SEQUENCE DESCRIPTION:

GATCCTGAAG CNGCACTTAC CTNTGAANAG TCTTCAAACCT TTTAAACCTT GCCAGTNAGG 60
 ACTTTTNCCTA TTGCAAATAG AAAACCCAAC TCAACCTGCT TAAGCAGAAA ATAAATTTAT 120
 TGATTCAAA 129

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SEQ ID NO:1324
 SEQUENCE LENGTH:127
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01474

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SEQUENCE DESCRIPTION:
 GATCTGTGAA GTTATTTTGT AAGGACATAC ATTTGGTAAG TAAGTTTGTG TCCCAGGAAA 60
 TGTATGTNTT TTTAAACCTT TTCTAAATAT GCAGGCCATT AATAATAAG ATTGTTTCTT 120
 CCCTAAA 127

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SEQ ID NO:1325
 SEQUENCE LENGTH:127
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01475

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SEQUENCE DESCRIPTION:
 GATCAGAGAG ATTTTNTTTT TAAACTACCA TGGTCCCAGG ATTCCATCCT GAAATNAATT 60
 TTCCTTTGTA TGAATATGTG TAAATAATTT AAAAATAAAA CTGTAAAAANA TTTGTNCGAA 120
 GAATAAA 127

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SEQ ID NO:1326
 SEQUENCE LENGTH:137
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01476

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SEQUENCE DESCRIPTION:
 GATCCCCCTT CATTGATGT TTGGAAAATN CCAGTAATTA TCATTTTTC AACGAATATG 60
 GATACCACAT AGTACTTTGG TGTACCTGC TTTTGAAAAA TAAAGTCTTT GGTTCACCCG 120
 GTGAACTATT TATGAAA 137

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SEQ ID NO:1327
 SEQUENCE LENGTH:126
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01477

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SEQUENCE DESCRIPTION:
 GATCCTCAGC CTCCCAGTGG TCTTTGTAGA CTGCCTGATG GAGTCTCATG GCACAAGAAG 60
 ATTAACACAG TGTCTCCAAT TTTAATAAAT TTTGCCCCAT TTCTATTAA AAAAATTGT 120
 TGTAAA 126

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SEQ ID NO:1328

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SEQUENCE LENGTH:129
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01478
SEQUENCE DESCRIPTION:
GATCCATCTG TGTAGTTTCT GAACAGTCAG CGATTCCAGG TTTTAAATAG TTTGTAAATT 60
TTCAGTTTCT ACACACTTTA TCATCCNCTC GTGATTTTTT AATTAAAGCG TTTTAATTCC 120
TTTCTCAAA 129

SEQ ID NO:1329
SEQUENCE LENGTH:125
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01479
SEQUENCE DESCRIPTION:
GATCCATGCT TTA CTGTGTT TAATGGGGGT AACAGGGGTC CCTACAGCCC TCCCAGCTAA 60
ACATTGGGAA CAAAACACCA GCCCTTTTGT AGTGGATGCA GAATAAAATT GTTAATCCAA 120
TCAA 125

SEQ ID NO:1330
SEQUENCE LENGTH:124
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01481
SEQUENCE DESCRIPTION:
GATCTGTGTT GAAAGTNGTA TATTTTATC TGTNCGGTGC TGAGTGCAGG CCACCAGCTC 60
CTAAATAGAG GTTCCCTATA TGC GCGTATG ACATGGTGAA TAAACACAAC TCTCTCCACT 120
CAAA 124

SEQ ID NO:1331
SEQUENCE LENGTH:124
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01482
SEQUENCE DESCRIPTION:
GATCGTTGTA ATTNNTTGAC ATTCCTTTNA GAAGTTGTGA AATGTTACAA CTTGTNCTTA 60
TG TAGACACA ATCTCCTGTC TCAGTACAGA GGC ACTGACT TCAATAAAGT CTATTTATAC 120
TAAA 124

SEQ ID NO:1332
SEQUENCE LENGTH:129
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01483
SEQUENCE DESCRIPTION:

GATCAAAAAA TGGAAATGTA TAATTAATC ATACTTAGCA AATCTAACAC ATGAAATGTA 60
 ACATCTGCAT ATGGAGAATC GTGTTACTTT ATTGAAAAAC ATTAAANGTT TGAGANCTTA 120
 AGTTGGAAA 129

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SEQ ID NO:1333
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS01484
 SEQUENCE DESCRIPTION:
 GATCTGCCAA GATTCTTTGA ATACAGATAA TTAATGTAAA CAATTATCAT AAGTATACTA 60
 ACATGTTATN CTTTTTAAAT AAGAAGGTAT AATAAAATAT CCCATTGGTT TNATGTATTA 120
 AA 122

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SEQ ID NO:1334
 SEQUENCE LENGTH:122
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01485

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SEQUENCE DESCRIPTION:
 GATCGGGCCN TTGGCTGTAA GACCCGACCC TTCGAGAACC CGANACGAAA CGCTCCATTA 60
 CCACTGCNCA GTGAGATGAG GGA CTCACAG TTCCAAGAGG NTTCTTTCCC GTGGNCCCCT 120
 NN 122

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SEQ ID NO:1335
 SEQUENCE LENGTH:121
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01486

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SEQUENCE DESCRIPTION:
 GATCCAACCC TGTACTGATA GTACTTCCCA GTATGATATT GTGATGTTTC ATACAATGCA 60
 GTGAACATAA CCAACTTGTT ACCTAAATAA AGANTTGATA AAAACAGTGT GACATATTA 120
 A 121

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SEQ ID NO:1336
 SEQUENCE LENGTH:120
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01487

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SEQUENCE DESCRIPTION:
 GATCAAGGTC TGCAAGGGAA TTCTTGTTG CTGCTTTCCA TTGACACCG CAGTTCTGTT 60
 CAGCCATCAG AAGAGAGACA AGGNATTA 120

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SEQ ID NO:1337
 SEQUENCE LENGTH:119

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01488

SEQUENCE DESCRIPTION:

GATCTAGTAG GCACGTCTGT CAACAGGACA CATGCCTCCT CTGACTATAA CCTCTTAATA 60
GTTGTGTATA ATGAAAAC TG TAACTTTTT TAAATAAACN GTGTATATAC CTTGGCAAA 119

SEQ ID NO:1338

SEQUENCE LENGTH:120

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01489

SEQUENCE DESCRIPTION:

GATCCTGAAG CCATGGTTTC TTCCCTGCCA GAAATGAAAG GTTCAGTTAT GAGGCAACCC 60
TCTAGTAAGG CATTGTAAAA GTTACTGGAT TTGGTTTAAT AAAAGTTGAA ATAAAGTAAA 120

SEQ ID NO:1339

SEQUENCE LENGTH:322

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01490

SEQUENCE DESCRIPTION:

GATCTTCCGA GTGCTTGGGG CCCACAGAGA CATCATCCTG GAGAGCATTG CCACTGACAA 60
CCCAGAGGCG CACAGCAACC TCTACATCCT CACGGGCCAC CAGAGCACCT ACTAAGAGCA 120
GCGGGCCTGT CCAGGGGCTC CCCGNCACAC CCCACGCCCT AGCTGCAGGC CCTTTTGGGC 180
AAAGGGGCCC ATCCTGGGCC ATCCATTCCA TTTGTTCCTT CATTTCCTTT CTACTCTTTC 240
TGCCAAGAGN CTGCCCTGC ATTTGTCCTG GGAAACACGG TATTAAAGAG AGAACTATAT 300
TGGTATTAAA GNTGGTTTGT TN 322

SEQ ID NO:1340

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01491

SEQUENCE DESCRIPTION:

GATCTTTGGA GCAAAAGCCA ACGGCAGGAA AAAATAGTTT GTACCAGTTT CATGAAGTAT 60
GTCTTTGGGT TTTGTAAAT AATTTAACT CAAATAAAAT TGCTACTTTC AATACAAA 118

SEQ ID NO:1341

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01492

SEQUENCE DESCRIPTION:

GATCAGAATN AAATNTGTAT AGAGCAGAGT TTTAAATGA ATGTAAATAG CACTAAACGT 60

NTNCTTTCTG CAACCTGTAC TTACAGATTC TCCCTGTAAA CTAAATAAAA AAAAAANTN 118

SEQ ID NO:1342

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01493

SEQUENCE DESCRIPTION:

GATCACAAAA TGTGCATGAG NGTTATTNAC TTTATTCTNG TACAGTACTA GGATTCCTGT 60
AACCACTCTT TTTTCTTC GNGGTATTGA AAAGTGGTC AGTGTTAACC AGGCAAGN 118

SEQ ID NO:1343

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01494

SEQUENCE DESCRIPTION:

GATCAATTCA CTAAAAAGNA TGGCCCANAT AGCACNNATA GGACCAAGGG ACACATGTAG 60
TCANTTTTAA AAAACATGTA CTTGGTCTTT TGTGTGTGC TGTATATTC CATTAGAN 118

SEQ ID NO:1344

SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01495

SEQUENCE DESCRIPTION:

GATCCCAGGA GAGCTGGGCT ATGACTGCAA TAAGGAGTTG TTCCTTCACC TGAGATGTGC 60
TTCTTTTGGT TCATTCTGG CTTGACAACA AGAAATAAAC GTGGTATGTT CCTGAAA 117

SEQ ID NO:1345

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01496

SEQUENCE DESCRIPTION:

GATCTTGAGG GACCCAACAT TTGTAGGGGC ACTAATCCAG CCCTTAAATC CCCCAGCTTC 60
CAAACCTGAG GCCCACCATC TCCACCATCT GGTAATAAAC TCATGTTTTT TCTGCTAAA 119

SEQ ID NO:1346

SEQUENCE LENGTH:116

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01497

SEQUENCE DESCRIPTION:

GATCAGATTT GGGTGGGAGA AAGAAGTGGG TATCAAGGGT GATTGAATT TTCTGCAGCA 60

TTAAAGTGGC GTTAATAAGA TAAGTAATAA TAAAGAATTC TAACATCCAT GTCAAA 116

SEQ ID NO:1347

SEQUENCE LENGTH:116

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01498

SEQUENCE DESCRIPTION:

GATCCGGTGG AAATCCAAGC TCTGGGCTGG TAATTTTAT GAGCATTTTC AGCTTTTGCA 60
AATACAAAT ATAATNCTTT ACAAAAATAA ATTTTATNC TAATCTAAAT CTGAAA 116

SEQ ID NO:1348

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01499

SEQUENCE DESCRIPTION:

GATCTTCTCT ATGATTGATA CATGGCACAG TGAGAGATTA ATGGGCATTG TGTACAAATT 60
GCTTCTCACC ATCCCCATTA GACCTACGAA TAAAGCATCC GGTCTAAAA TTAAA 115

SEQ ID NO:1349

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01500

SEQUENCE DESCRIPTION:

GATCTTTTGG TAAAGGACC AAATGTTCTT TTATAAATGT AATAAGGAAT ATCTTGCTCT 60
TTAAATTTTA TTAGGNNTT AATGAGTAAT TTNATTAAA AGATTCTTT TTTTGAAA 118

SEQ ID NO:1350

SEQUENCE LENGTH:192

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01501

SEQUENCE DESCRIPTION:

GATCCTATTT GTTTCATTT ATTGTAAATN CCCATTTGCA TCAAAACCTA ATNATAGTGA 60
TNGGTAAGTA AAAACAAATG GTGTATTGCT TTTCATACAA GTGTTTTCAC AAAAGCCATT 120
TGCCTAGGCA GCAAAAAATA TTAATTTGTT AAAAAAATT TTCCTTCGTG TCCATCCNCA 180
NAAANTNGNG NN 192

SEQ ID NO:1351

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01502

SEQUENCE DESCRIPTION:

GATCTGTGGA CTTTCATCAN ATTATGAGAC TNNCTCAATT TCATGACTGT ACTACCTGAA 60
 ACAAAGTGAG AAAGGACAGG TGTATTTTNN TAAGTCATCA AGATAAATCC TTAAN 115

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SEQ ID NO:1352

SEQUENCE LENGTH:150

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS01503

SEQUENCE DESCRIPTION:

GATCTTAGTT TGTAGCTTAT GACTTATTTA ATGAATGGAT GCCCAGCCAA GCTCAGAGTA 60
 GCGGCCCAAA GCATTGTGGA TTATTTTCCT GTTTGTCTT TTTTTTTTTT TTTTNAAG 120
 CCATGNCANC CCNGANGGGG CCAGNGANTN 150

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SEQ ID NO:1353

SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS01505

SEQUENCE DESCRIPTION:

GATCGNNAAG AGGTTACCCA GACCACACAC AGTTTGAGAA AACATNCCCA TTATNACCCA 60
 TCTAGCAAAG AGGCACCCTA AGTGGTCCAT GAAGAGTTTA ATTTATNTT AAN 113

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SEQ ID NO:1354

SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS01506

SEQUENCE DESCRIPTION:

GATCGGGTTT AGACGNNAGN TCATTCAGTG AAGCAAGCCA AAAGCNCACA TTTGTATGCC 60
 TTAGGTCTTC TTAATGTTT ATCTGTAAAC ATGTGTCCAA TATAAANCT ATN 113

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SEQ ID NO:1355

SEQUENCE LENGTH:411

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS01507

SEQUENCE DESCRIPTION:

GATCCTCCCT GCCCGCGAAG TGNACAGTTT ACAAATTAT TTTCTGCAAA AAAGAAAAAA 60
 AAGTTAGGTT AAAAACCAAA AACTACATA TTTTATTATA GAAAAAGTAT TTTTCTCCA 120
 CCAGACAAAT GAAAAAAG AGGAAAGATT AACTATTTC ACCGAAATGT CTTGTTTTGT 180
 TGGACATAG GAAAAAACC AAGCACAAAG TTATATTCCA TCCTTTTAC TGATTTTTT 240
 TTCTTCTATC TGTTCATCT GCTGTATTCA TTTNTCCAAT CTCATGTCCA TTTGGTGTG 300
 GGAGTCGGG TAGGGGTAC TCTGTGCAAA AGGCACATTG GTGCATGTGT GTTGCTAGC 360
 TCACCTGTCC ATGANAATAT TTTATGATAT TAAGGNAAT CTTTGAAAA A 411

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SEQ ID NO:1356

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01508

SEQUENCE DESCRIPTION:

GATCATGGTG TAATAAGACA TAACGTTTT CCTTTAAAAA AATTAAAGTG CGTGTGTAGA 60
GTTAAGAAGC TGTTGTACAT TTATGATTTA ATAAAATAAT TCTAAAGGNA AA 112

SEQ ID NO:1357

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01509

SEQUENCE DESCRIPTION:

GATCAAGTGC ATTTGACAGA AAAGTTCAGT TTCTTGGGAA GAAACACCTT TTAAGCTGAA 60
TGGAGAAAAT NCCAAAATAA ATTATATCAC CACAATGGTG TATACTCAGA AA 112

SEQ ID NO:1358

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01510

SEQUENCE DESCRIPTION:

GATCTGGGAA AAAACAAGA GACTCAATGG AGACAGAAGA AAATCCCAAG GTTCTAATAA 60
CTNCTTCTN AAAAANTATC TACCCCATTT GGTGAAGTGA AAANCAGAAA AN 112

SEQ ID NO:1359

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01511

SEQUENCE DESCRIPTION:

GATCCTGGTT GGAGTAAACA TTCCATGGGA ACTCGGGCTG TNAGAATNTC CTAACCACCT 60
GANTGCAGAA ACATCCTTAT CACATCTTNC TGGGAAAAGNC CAACAGCCTG AN 112

SEQ ID NO:1360

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01512

SEQUENCE DESCRIPTION:

GATCCATCAC CTGNGCAGCA TAACTGGCTT CNNCTCAGTC ATCCACACAA CACCAGGACT 60
TAAGACAAAT GGGACTCCCT GTCATCTNGA GCTATNCATT TATTAAACT GN 112

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SEQ ID NO:1361
SEQUENCE LENGTH:111
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01513
SEQUENCE DESCRIPTION:
GATCCCTTCA TTGATGTTTG GAAATTCCAT ATTACATTTT GCAGGATATG GTACACATAG 60
TACTTTGGTG TACCTGCTTT TGAATAATAA AGCTTTGGTC ACCCGGTGAA A 111

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SEQ ID NO:1362
SEQUENCE LENGTH:111
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01514
SEQUENCE DESCRIPTION:
GATCAGAGAA TGCAGCAGCA GTTTTTTCC TNGTTTNCCTT ACCACTTTAT TCTTTCANAG 60
TTTAAAGAAA ATGGACTCAT GCACAGAACA CTATGCATTT NAAAACTNGT N 111

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SEQ ID NO:1363
SEQUENCE LENGTH:111
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01515
SEQUENCE DESCRIPTION:
GATCGGGGGC GTANATNCAT AGTAGTTTTT ACAGCTGTGT TATTCTTTGC GTGTAGCTAT 60
GGAAGTTGCA TAATTATTAT TATNATTATN ATAACANGTG TGTCTTACGT N 111

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SEQ ID NO:1364
SEQUENCE LENGTH:110
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01516
SEQUENCE DESCRIPTION:
GATCTCAAAA CAGTGCTAAA ATCAAAGNTG TNGACTGTAA AGAAAAACAT GTATATATAT 60
TGCACCTNAA AGTTGTCAGA AGNTAGAAAC TNAATAAAC TAACTTAAA 110

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SEQ ID NO:1365
SEQUENCE LENGTH:109
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01517
SEQUENCE DESCRIPTION:
GATCCACGC CACAGCCTTT TGNNTGCAA CTGCCTTCTT CGGAAAGAAG AAGTGGGAGG 60
ATGTGAATTT TAGTCTGAG TTTACCAAT AAAGAGATAT AAGACGAAA 109

SEQ ID NO:1366

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01518

SEQUENCE DESCRIPTION:

GATCATGTAC TGAAGTAGTT TAAGCAGGCT GGCTAACTTA GACTNATTGA TTCTGCNTTT 60
GTACTNNAAT AGGGGTTATA ATTGTAAGAT AAAAATGTGT GTGTNCAAN 109

SEQ ID NO:1367

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01519

SEQUENCE DESCRIPTION:

GATCTGGGGG TTTCTTCATA TTCCTGCTGT TGGAAGCAGT TGACCAGAAA TGCTTGNCAG 60
NACTGCCAAA GCACTGCTGT GAAATGTGAA GTACTTTGTT TTTTATTTT TAATNATTTT 120
CTTTTGTTA TTAATATTTT TCTCTGTTCC TTTGTTATTA CTTGCATGGT TTGGCGTCAG 180
AAGTCCTTAC CTCCTTATAT TGTTGCAGG TTAAATAAAA ACAGTGTGGT GCCAAA 236

SEQ ID NO:1368

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01520

SEQUENCE DESCRIPTION:

GATCTTGAAG TTATTTTAA GACATACATT TGGTAAGTAA GTTGGTCCCA GGAATGTATG 60
TNNTTNAAC CCTTCTAAA TATGCAGNCA TTAATAAATA ANATTGTN 108

SEQ ID NO:1369

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01521

SEQUENCE DESCRIPTION:

GATCCAACCC AAATCAAATT GTTAAATGCC CTCTTGAATT TTTTGTCTG TTATTTAATT 60
ATATGGTGGA ATTAATAATA AAATAAACTT CATGTCTCTG ATTCAAA 107

SEQ ID NO:1370

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01522

SEQUENCE DESCRIPTION:

GATCTNGAGC TCTGTCTTCA GCAGATTTC A GGTGTAACAT TTGTTAACTC GTACTNGAAG 60
GTGTGTCTCTC AAGAAGAAAG TTTCAAATT AAAAAAGCTG CTGCAAA 107

5 SEQ ID NO:1371
SEQUENCE LENGTH:107
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01523

10 SEQUENCE DESCRIPTION:
GATCATGTAC ATTGTAACGT GTGTGTCAG TACTGCAGTT CCTCACTTT NTTGTCTNT 60
NATTACCATG ACATTTTAA AGATACAGCT ATTTTNTCGA TGTNAAA 107

15 SEQ ID NO:1372
SEQUENCE LENGTH:286
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01524

20 SEQUENCE DESCRIPTION:
GATCACATCT AAAGCTTTAT CTTTGTGTAA TCTAAGTATA TGTGAGAAAT CAGAATTGGC 60
ATAATTTGTC TTAGTTGATA TTCAAGGCTT TAAAAGTCAT TATTCCTGGG CTGGGTAAGT 120
GAATTTATGA GATTTACTGC TCTAGAAAAGT ATAGATGGCG AAAGGACCGT TTTGTATTGC 180
25 TTCCTGATTA CCAGTCTGAT TATACCATGT GTGCTAATAT ACTTTTTTTG TTATAGATTG 240
TCTTAATGGT AGGTCAAGTA ATAAAAAGA GATGAAATAA TTTAAA 286

30 SEQ ID NO:1373
SEQUENCE LENGTH:107
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01525

35 SEQUENCE DESCRIPTION:
GATCCGCGCA CCTAAGCCTC CCAAAGTNCT GGAATTACAG GCATGANCTA CCATNCCTGG 60
CCTTCTAATG TTTTCNTAA TTAAGGCTCT NAACTTCCAA GACTGTN 107

40 SEQ ID NO:1374
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01526

45 SEQUENCE DESCRIPTION:
GATCTAGAGG NGAGAAAAAG ATGANTTGCT CTTACATTC GATAATCAGT GACCACGAAA 60
CACTCAGACC AGAGCCTGGC TTATCAAAAA CCTTNAGTGA GNNCTN 106

50 SEQ ID NO:1375
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01527

SEQUENCE DESCRIPTION:

5 GATCCACGTG CCATTGTGGA GGCAGAGAAA AGAGAAAGGN TTTATATACG GTACTTATTT 60
AATATCCCTT TTTAATTAGA AATTAAACA GTTAATNCNC TTCAA 106

SEQ ID NO:1376

SEQUENCE LENGTH:117

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01528

SEQUENCE DESCRIPTION:

15 GATCCTGAGC TCCTTTGCA GTCTGAAAAA GGTATTGCAG TCAGAACTGT GTACTGATGA 60
TAAANGCCTC TGGTAGCAAT AAAAAGTTGT CCCTAACAAA AGAGGCAAAA AAATAAA 117

SEQ ID NO:1377

SEQUENCE LENGTH:105

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01529

SEQUENCE DESCRIPTION:

25 GATCCAGCAA ACAGGTTCTN TTAAAGAAAA ATAATTTATA CTAAATTNAG TAAAATGGAC 60
TTCTTATTCA AAGCATCAAT AATTAAGA NTAATTNAA TGAAA 105

SEQ ID NO:1378

SEQUENCE LENGTH:105

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01530

SEQUENCE DESCRIPTION:

35 GATCAGCAA ATGAGATAAA TGTTTCNTT TTCCTTTCTG ACTGCATTAA ATCAGATACA 60
ACTCAGCATT AAAAGCTAT CTNTGTAAT NTNGTNACTA ATAAN 105

SEQ ID NO:1379

SEQUENCE LENGTH:105

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01531

SEQUENCE DESCRIPTION:

45 GATCTAACAC GAGGAACATA TCATGGAAAG TGCATNGTAT NTATTTAGG GTTATGAGTT 60
CTTCAAGGG CTAAGNTGCA GAGNATTCC TCCANGAATC GTGTN 105

SEQ ID NO:1380

SEQUENCE LENGTH:105

50 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01532

SEQUENCE DESCRIPTION:

5 GATCAGGTGA CATGAGGGNT CACTCTTCTT GTTGACANN CTGTGAGTTC GGGCAAATNT 60
GTAATGGCAT ATCTCCACTA TTACAGTNTC ACACAGAATT ATTTN 105

SEQ ID NO:1381

SEQUENCE LENGTH:332

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01533

SEQUENCE DESCRIPTION:

15 GATCGGTGCG TTCTCCTGAT GTTTNCCNT GGCTTGGGGA TTGTACACGG GACCAGCTCA 60
CGTAATGCAT TGCCTGTAAC AATGTAATAA AAAGCCTCTT TCTTTTGGG GTGGNNNTTG 120
TCCTTCTGTC AGCTAAAATG GGAGCTCATG AGAGAAGGAC GTCAGGGAAA CGGGGTTGAG 180
GGTGGTCTCG GTGCAGAGAG AAGGGTGTCA GGGAAACGGG GGGTGAGGGT GGTCTTGGTG 240
20 CCAGACGTAG GGAATGGTGT TGGGAGTGGC CCGAGTGCCT GGCACAGTTG TCTNGTTCAT 300
TCATGTAACA TGATAATTTT TAAATCATTAA AA 332

SEQ ID NO:1382

SEQUENCE LENGTH:157

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01534

SEQUENCE DESCRIPTION:

30 GATCCTGCTG CTGTAATGGG AACCCCTCCC CCATTACTT CTCCACCTCC CGTCCTCCCC 60
ATCATTGGTT TTTTTTGTG TGTCAACTGT GCCGTTTTTA TTTTATTCCT TTTATTTTCC 120
CCCTTTTCAC AGAGAAATAA AGGTCTAGAA GTAGAAA 157

SEQ ID NO:1383

35 SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01535

SEQUENCE DESCRIPTION:

40 GATCTACTGT TTGTGAAAGT GTGGGAAAAAT AGCCTCTCTA AGGCAGCCCA GATGGGACCA 60
AAATCAGTAC AAACATATTT AAGTAAATTT TAAAATGCGT AAA 103

SEQ ID NO:1384

45 SEQUENCE LENGTH:284

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01537

SEQUENCE DESCRIPTION:

50 GATCCCCTTG TCCCTGGAGT AGGGACTAAC TATAGCACAA AGTAATATGT GCCAATGCTA 60

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TTTGTGAAAT GTTTGGGCTT TCTAAACGAC TAAAGGATTT GTNGGGTTTT TNCTTAAGTT 120
 TTGAACCAAA TCCTAGAGCC AGCTGATAAT ATTTAATAAT CTAGAGGAGA GAATAATGAT 180
 GTACCANTAA GTGGAGATTC CTCCTTATGA TGTATGCTAG GTTATGGAAG ATGTAAAATA 240
 TTCAACTTTT TCCTNCGTTT TTTGGACTTT GTATTTTACT GNAN 284

SEQ ID NO:1385

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01538

SEQUENCE DESCRIPTION:

GATCTGGAAC TCCTAAGCCA TCTACTCCTA CACCAACCNN TTCATCGAAC NCACACCCTN 60
 CTNATGCTCA GAGCTCAACT CCTAGTACCC CTTCAGCCAC CCN 103

SEQ ID NO:1386

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01539

SEQUENCE DESCRIPTION:

GATCGCCGTT CTGTTTGCA TNNTCCCACC GGGAGTTGCC NGGCAGGAGC ATGGGGTGCT 60
 TGGTTGTTTC CTTCTAATA AATAAACGC GGGTCGCCAT GAAA 104

SEQ ID NO:1387

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01540

SEQUENCE DESCRIPTION:

GATCTTAGCC TTAGGGTAAG TAAAATGGGT CTTTAAATAT AANAGTGTGA AACTATTTT 60
 NATCTAATAG TACTCTTTN AATAAAAGTC AGTAGTNGGA AA 102

SEQ ID NO:1388

SEQUENCE LENGTH:378

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01541

SEQUENCE DESCRIPTION:

GATCCTNGGT TTTGTGGTT TGACTTCTAT GNGTTTTAA AAAACACAG ATTTTATGT 60
 TTAATATTGT GTAAATGTAC TCACCTTAGG GATTCAATTG AATGATGGTN TTATACCATG 120
 ATTGNTTACA GTTTGTGAAA TTGTTGCAAG GGCAAAGATA ACTCTTAAAA AACCGTCGAG 180
 ATTACAATGC TCTAGAATCA GCATATAAGA AAATAAATGA TATCTNCATG TNGANTNNGG 240
 GTGGATGGGG GGAGCAGCA TAATTTTAA GTGTGAAGCT TTGCATCANA GAAATTATTA 300
 AAANGCTTTT TTNCTCCNGT ATNTTCCTGT ATTAATCCTT AATGTTTATG GCAAATAAAA 360
 TGTAAGGGGN ACATGAAA 378

SEQ ID NO:1389

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01542

SEQUENCE DESCRIPTION:

GATCGTAACC GTAACCGTAA CCGNNAAGCA CAAACGGGGG GAGCGGGGCA GTGAGCGGGG 60
CAGGNATGAG NCCCGAGGTG GGGTCGGTGG CCAGNACAAC GN 102

SEQ ID NO:1390

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01543

SEQUENCE DESCRIPTION:

GATCCAGAGG TCCNNGTCAC TTGGAGAAAAG NCCAGTCCCT GNGACGGGGC AGCCCTCTNT 60
GTCCCTCGGG CAGCTCGTGT GAATCCTGGG ACCTCTCCG GN 102

SEQ ID NO:1391

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01544

SEQUENCE DESCRIPTION:

GATCTCAGCA ATTTGAACAC TAACCTCTCC CCTCCTGGCT CAAGAATTAC TCCGAAGTCA 60
GTCTGCAGAA AATAAATATT TAGTATGACA TGACACTTAA A 101

SEQ ID NO:1392

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01545

SEQUENCE DESCRIPTION:

GATCTACTCA GGCAACNACC AATCTTCTAN TCTGTCACTA TAGATTAATT TGCATTNTTA 60
AAGAAATNNA CATACATGGA ACCATACATC ATCTATGCTT N 101

SEQ ID NO:1393

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01546

SEQUENCE DESCRIPTION:

GATCCTAGGA AGTNTGTCCC TGTCTCCCT GTGCAGGGTA TCCTGTAGGG TGACCTGGAA 60
TTCGAATTCT NTTTCCCTTG TAAAATATTN NNTGTCTCT N 101

SEQ ID NO:1394

SEQUENCE LENGTH:100

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01547

SEQUENCE DESCRIPTION:

GATCCACGTG CCATTGTGGA GGAGAGAAAG AGAAGTGTTC ATATACGGTA CTTATTATA 60

TCCCTTTTAA TTAGAATTAA AACAGTTAAT TTAATTCAAA 100

SEQ ID NO:1395

SEQUENCE LENGTH:100

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01548

SEQUENCE DESCRIPTION:

GATCTTAGGT TACATAAAGT TTCTAAAGTT TCAAAGAGTC TTGATACAAA ATCAGTTTAT 60

ATTCTGAAAA TATTATAAT AAAGTATTCT AATTCTAAA 100

SEQ ID NO:1396

SEQUENCE LENGTH:98

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01549

SEQUENCE DESCRIPTION:

GATCAATTCT TCAATTTGAT TGAAGTGTTC AGCCTTTTCA AGATTCTTT ATTACAAAT 60

GATTACATT AAATGAATGT ACATTCTTCT CACTGAAA 98

SEQ ID NO:1397

SEQUENCE LENGTH:98

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01550

SEQUENCE DESCRIPTION:

GATCTGTAAC ATTTGTTTCA AAATGCTGTT TCATTTTAT AAAGTACCAG TGTGTTAGCTG 60

CTTTTATAC ATTAAATTAG CAATTGAAA AACTCAA 98

SEQ ID NO:1398

SEQUENCE LENGTH:98

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01551

SEQUENCE DESCRIPTION:

GATCCTCAGT GTCCTTACCC CCTCCTACCT CTTTCTGTG CCACCTGCTG TGGGTCCAGC 60

AGGCNTTAC TTGAGTACAA TAAAAAGTCT GAGTCAA 98

SEQ ID NO:1399

SEQUENCE LENGTH:98

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01552

SEQUENCE DESCRIPTION:

GATCCAAGTG TAGTGGGACC CCCTACTAGG GTCAGGAAGT GGACACTAAC ATCTGTGCAG 60

GTGTTGACTT GAAAAATAAA GTGTTGATTG GCTAGAAA 98

SEQ ID NO:1400

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01553

SEQUENCE DESCRIPTION:

GATCTCCAAA GTGGTGAGTT TATGTGTGAT TTTTATTTTG TTTATGCTCT TCTGTATTTT 60

CCGAATTTC TACAATAAAT ATCTGTTACT TTTACAATAT GAAA 104

SEQ ID NO:1401

SEQUENCE LENGTH:94

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01554

SEQUENCE DESCRIPTION:

GATCCAGAGA GTTCAAGGGA TTGGGGAAAG AGAGGCGTCA AGTCATTTC ACTTTGTACC 60

TGTAAGTTAG GTAATAAACT ATTATACTCG TAAA 94

SEQ ID NO:1402

SEQUENCE LENGTH:92

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01555

SEQUENCE DESCRIPTION:

GATCTAGTNT CTNGCATTTT TATTATGTTG CTATATACTT TTGTTATCCG TATACTAAAA 60

AAAAAGAATA AATAAATGTT TTGATTGTTA AA 92

SEQ ID NO:1403

SEQUENCE LENGTH:92

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01556

SEQUENCE DESCRIPTION:

GATCTNTACA TTCTTCAGAC TCATCGTGTG TTGANAATT TTTATAATGA ACATATATCA 60

TTTTNNTTAG AAAAGAATAA AGTTTTTGAA AA 92

SEQ ID NO:1404
SEQUENCE LENGTH:119
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01557
SEQUENCE DESCRIPTION:
GATCCTCTGG GGAAGCCAGG ACCAGGAGAG AAGCAAGGTC AAGAAATCCC ACAGTTTGAT 60
GTATTAAAGA AATNACTTAT TTCTACTCAA AATAAATGGC ATTGAAGTCT TTCTTTAAA 119

SEQ ID NO:1405
SEQUENCE LENGTH:90
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01558
SEQUENCE DESCRIPTION:
GATCTTGTTGT CTCCTCTCCA TCTCTGCCTT TGTTACCAGT GTGCATGTGT TTGTGTGTTT 60
TTTAATAAAA TATTGACTCG GCCAGTTAAA 90

SEQ ID NO:1406
SEQUENCE LENGTH:90
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01560
SEQUENCE DESCRIPTION:
GATCTGTTAT GGCATTCAC TCCAGATTAA TTTCCGTGT TTGAAGTATG TNCATATGTN 60
CTTTACAGAA TAAACATCT GAATTTTAAA 90

SEQ ID NO:1407
SEQUENCE LENGTH:87
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01561
SEQUENCE DESCRIPTION:
GATCCATTTT CTTTCAAAAT TTTCTTTATT GTAAAGTATG CAAAATATAT ATTCATACGA 60
TTTATTAAAT CAGAATGTTT ATACAAA 87

SEQ ID NO:1408
SEQUENCE LENGTH:85
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01562
SEQUENCE DESCRIPTION:
GATCTGGAAT CCTTTTCTG CATTGACAAG GACCACAGCT AAAGGACAAT AATATGAATG 60
ACTCATTAAT ATCTCAAAAC TTAAA 85

SEQ ID NO:1409
SEQUENCE LENGTH:85
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01563
SEQUENCE DESCRIPTION:
GATCCAAGTT ATTTNAGAA GAAAAACCTA ATTGAACAGG TATGGGTTGG GAGCATAATA 60
AATGTGTTTT GAGAATTGTT CTAAA 85

SEQ ID NO:1410
SEQUENCE LENGTH:84
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01564
SEQUENCE DESCRIPTION:
GATCATTATT TCATGACTGG TGGGTTCCCTA AACTCTGAAA TCAGCCTTGC ACAAGTACTT 60
GAGAATAAAT GAGCATTITT TAAA 84

SEQ ID NO:1411
SEQUENCE LENGTH:84
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01565
SEQUENCE DESCRIPTION:
GATCTAAGCC CATGAGCACA GGGACTGGCT ATCCCAAGAC CTGGCAGATG TGGCTGCTCA 60
ATAAACACTT GTTGAACCAT CAAA 84

SEQ ID NO:1412
SEQUENCE LENGTH:86
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01566
SEQUENCE DESCRIPTION:
GATCACCCAA GGGTTTTTTT GTGTCCGACT ATGTAATTGT AAATAATACC TCTGGTTCCC 60
CATTAAAAGT NCCCATTTNA GTTAAA 86

SEQ ID NO:1413
SEQUENCE LENGTH:83
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01567
SEQUENCE DESCRIPTION:
GATCTGTGTT TGTATCCCTT TATGTAATGT AAAATTTAAG GGTATTTTGA TTCTAAATAT 60
GATAAAATAA TTTCTCACCT AAA 83

SEQ ID NO:1414
SEQUENCE LENGTH:83
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01568
SEQUENCE DESCRIPTION:
GATCAGCAGT CCACCACAAA AGCTTCTGTT AAAAGACCCT ACACAAATGC ACAAATTCAG 60
ATTAAACAAG GAAAAGACGG AAA 83

SEQ ID NO:1415
SEQUENCE LENGTH:83
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01569
SEQUENCE DESCRIPTION:
GATCTTGGTG TTCAAAACAG AACTGTATTT TTGCCTTTAA AATTAAATAA TATAACGTGA 60
ATAAATGACC CTATCTTTGT AAA 83

SEQ ID NO:1416
SEQUENCE LENGTH:82
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01570
SEQUENCE DESCRIPTION:
GATCCTTCTG TAAAGGTTTT TGGAATTATG TCTGCTGAAT AATAAACTTT TTTGAAATAA 60
TAAATCTGGT AGAAAAATGA AA 82

SEQ ID NO:1417
SEQUENCE LENGTH:86
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01571
SEQUENCE DESCRIPTION:
GATCTGCATA TTTCTGTATA TTTGTCATGA CAGTGCTTGC ATCCTATTG GTGTACTCAG 60
CAAATAAACT TTTCAATTTA AACAAA 86

SEQ ID NO:1418
SEQUENCE LENGTH:81
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01572
SEQUENCE DESCRIPTION:
GATCCCAACA TGGTCCTAGC ACTGCACACT CAGTTTTNCT CTAAGAAGCT GCAATAAAGT 60
TTTTTNAAGT CACTTTGTAA A 81

SEQ ID NO:1419

SEQUENCE LENGTH:81

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01573

SEQUENCE DESCRIPTION:

GATCTTCANT TAATCNCAC TTA AAAAATGA CAAAACATG TCTTCTTGA ATTAAC TTG 60

AATAAAAGTT TGTATATTAA A 81

SEQ ID NO:1420

SEQUENCE LENGTH:81

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01574

SEQUENCE DESCRIPTION:

GATCAGAGCT CAGTTCCTGT AGAAAACGAA CTGTAAAAGA CCATGCAAGA GGCAAAATAA 60

AACTTGAAGT GAATGCTTAA A 81

SEQ ID NO:1421

SEQUENCE LENGTH:80

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01575

SEQUENCE DESCRIPTION:

GATCTTGGGT TTGGTCTACC CACCCAAGAG AAAAGACTGT TAACTGGAAG AAAAAATATA 60

TATATNNAAT TTTATGTAAA 80

SEQ ID NO:1422

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01576

SEQUENCE DESCRIPTION:

GATCACAATT ACCTTTAGTT GTTTTTTTTG TAATAATTGT AGCCAAGTAA ATCTCCAATA 60

AAGTTATCGT CTGTACAAA 79

SEQ ID NO:1423

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01577

SEQUENCE DESCRIPTION:

GATCCTTATG AATGACAGGT TACTGTTTTG CCTTATTGCT TAACTTAATG TAGTGAAATA 60

AAGCAGACAA AGCTTGAAA 79

SEQ ID NO:1424
SEQUENCE LENGTH:79
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS01578
SEQUENCE DESCRIPTION:
GATCTTCTGC ATGAGACCTG GAGTTGGGGA AGCAAGGTTA CATTGTATT NGTTTATCCT 60
10 ATGAATACTN TTCTTCAA 79

SEQ ID NO:1425
SEQUENCE LENGTH:78
SEQUENCE TYPE:nucleic acid
15 TOPOLOGY:linear
CLONE:HUMGS01579
SEQUENCE DESCRIPTION:
GATCAGGCAG TCTGCTCAGA TACATTGAGT GCGGATTTA AGTTTTGTTT TGAATAAATA 60
20 AACAGATTAA CCGCAAAA 78

SEQ ID NO:1426
SEQUENCE LENGTH:78
SEQUENCE TYPE:nucleic acid
25 TOPOLOGY:linear
CLONE:HUMGS01580
SEQUENCE DESCRIPTION:
GATCTAAATT TCTAATGTGT TCTATGGGTT TCAATTCTGA AAAAAGAAAA TGAATAAAGA 60
30 TTTAATAAAA TATTGAAA 78

SEQ ID NO:1427
SEQUENCE LENGTH:78
SEQUENCE TYPE:nucleic acid
35 TOPOLOGY:linear
CLONE:HUMGS01581
SEQUENCE DESCRIPTION:
GATCTTCATT GTGCTGGGTG CCAGGNCAGT NATCCATTTT AAAATTTGTA ATTCAATAAA 60
40 GTTTTTTTTG TTNTTAAA 78

SEQ ID NO:1428
SEQUENCE LENGTH:77
SEQUENCE TYPE:nucleic acid
45 TOPOLOGY:linear
CLONE:HUMGS01582
SEQUENCE DESCRIPTION:
GATCTCCAGG CTGGCCTCC AGAGCAGCCC ACACCAACNC CAAAATAAAA AAATGTATAT 60
50 ATTCCTTTAG CTCTAAA 77

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SEQ ID NO:1429
SEQUENCE LENGTH:76
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01583
SEQUENCE DESCRIPTION:
GATCCCAGGG ACCTCAGTCG GCTTAATCAG AGTGTGGCAT AGAAGCTATT TAATGATTAA 60
AGTCATTGC AGTAAA 76

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SEQ ID NO:1430
SEQUENCE LENGTH:76
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01584
SEQUENCE DESCRIPTION:
GATCAAACTT TTNATGTTCT TAATAAGCTT GCAATTGANT AAAATAGAAT ATAAAAATAA 60
GGTGAAATAA TATAAA 76

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SEQ ID NO:1431
SEQUENCE LENGTH:79
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01585
SEQUENCE DESCRIPTION:
GATCCCAAGT ACAATGAAAA GTTTGCACTG TATGCTGGAC GGCATTCCTG CTTATCAATA 60
AACCTGTTTG TTTTACAAA 79

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SEQ ID NO:1432
SEQUENCE LENGTH:75
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01586
SEQUENCE DESCRIPTION:
GATCTCCAAC NTTGAAAAAT ATACATGATG TGAAACTGNG GGTNCTATGT TAAAAATAAA 60
TGTATGATAA CTAAG 75

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SEQ ID NO:1433
SEQUENCE LENGTH:74
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01587
SEQUENCE DESCRIPTION:
GATCCAAACA TTTTTTGTG TGTGTATGGC ATTGATGCAG AATAGAATAA AATTATACTT 60
AAGTTCTTTT TAAA 74

SEQ ID NO:1434
SEQUENCE LENGTH:73
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS01588
SEQUENCE DESCRIPTION:
GATCCCGGCG CGGGAAAGTC ACAGAGCTGC CTGGGCTTGT ACCTGGNCAC ATAAAGCCCC 60
10 ANTTTAAAGC AAA 73

SEQ ID NO:1435
SEQUENCE LENGTH:73
SEQUENCE TYPE:nucleic acid
15 TOPOLOGY:linear
CLONE:HUMGS01589
SEQUENCE DESCRIPTION:
GATCCCANAG CNATAAAATA AAATTTTATT CAAAATAAC AAAACAAATT NATCTACTGT 60
20 ACACAATCTG AAA 73

SEQ ID NO:1436
SEQUENCE LENGTH:72
SEQUENCE TYPE:nucleic acid
25 TOPOLOGY:linear
CLONE:HUMGS01590
SEQUENCE DESCRIPTION:
GATCCCAGGC TTCTGCGGAC CGACGATACG TTAAATGTT GTTCTAGTAA AGTTTTCGAT 60
30 ATGTTTCTGA AA 72

SEQ ID NO:1437
SEQUENCE LENGTH:71
SEQUENCE TYPE:nucleic acid
35 TOPOLOGY:linear
CLONE:HUMGS01591
SEQUENCE DESCRIPTION:
GATCCCTTGG NGGNCIAGTT CGTATTTTTG TTTAAACTA TTTGTTAGAA TAAAGTAATT 60
40 TTGCTAATAA A 71

SEQ ID NO:1438
SEQUENCE LENGTH:70
SEQUENCE TYPE:nucleic acid
45 TOPOLOGY:linear
CLONE:HUMGS01592
SEQUENCE DESCRIPTION:
GATCTTAAGT ATAAAAATT TGTAATTGGG CCTTTACTCT CTCAATAATA AAGTATTTTG 60
50 TTTATATAAA 70

SEQ ID NO:1439

SEQUENCE LENGTH:68

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01593

SEQUENCE DESCRIPTION:

GATCTGTATT TTCTAAGTCC CCAGTTCTCC TGGCTCTCCT TTCTGAAATA AAGGATTGAA 60
 AACNGAAA 68

SEQ ID NO:1440

SEQUENCE LENGTH:67

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01594

SEQUENCE DESCRIPTION:

GATCTGTTTT TAAAAATCAT AAAGTGTGTG CAGACTCAAT AAAATCATGT ACATTCTGA 60
 AATGAAA 67

SEQ ID NO:1441

SEQUENCE LENGTH:71

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01595

SEQUENCE DESCRIPTION:

GATCAACAGT TACTGTNACT GAGTCGGCCC ATTCTGTITA GAAATATATT TNAAATGTTT 60
 AGTAATTGAA A 71

SEQ ID NO:1442

SEQUENCE LENGTH:66

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01596

SEQUENCE DESCRIPTION:

GATCTGCCAT TTATGCCNT GTGACTACNN ATCATTGGCC CTGCAATAAA ATCATTTATT 60
 TTAAAA 66

SEQ ID NO:1443

SEQUENCE LENGTH:64

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01597

SEQUENCE DESCRIPTION:

GATCCTGCAT GCTACTCTTA GATAGAAGAT GGCAAAACCA TGGTATTAAA ATATGAATGA 60
 TAAA 64

SEQ ID NO:1444

SEQUENCE LENGTH:64

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01598

SEQUENCE DESCRIPTION:

GATCAAGTCA CTNTTGACAA CATCCAGGNG AATATAAAAA CTTAATAAAG CTGTGGAAAG 60

GAAA 64

SEQ ID NO:1445

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01599

SEQUENCE DESCRIPTION:

GATCAATTGG TTAACTTCT TTTATGTAAG TATGGTATAT AAATTTCAAG ACGAACACTA 60

AA 62

SEQ ID NO:1446

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01600

SEQUENCE DESCRIPTION:

GATCACTTTT CACTTTTGG AATGTTTGT ATTGAAACTT AATAAACTT TAACATGGCA 60

AA 62

SEQ ID NO:1447

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01601

SEQUENCE DESCRIPTION:

GATCGNTCTC AGGCCCTCCC CCCGGAGTAC TTCAGAATGC AATAAATCAA AATAATGGCA 60

AA 62

SEQ ID NO:1448

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01602

SEQUENCE DESCRIPTION:

GATCTGTATG TGTCTATTC AGCACAAGGA AATAAAATTT TAGTTGAGGA TTCAGCACTA 60

AA 62

SEQ ID NO:1449

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01603

SEQUENCE DESCRIPTION:

GATCCCCATT CTTTCAAAA ACAAAATAAA ACAATAAAGA CTGCAAGGAA GACTGANGGA 60
AA 62

SEQ ID NO:1450

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01604

SEQUENCE DESCRIPTION:

GATCCAGTCT GGAATAACAT TTTGTAAAAA AAAAATATAT ATATATATAT ATATNGCTGA 60
AA 62

SEQ ID NO:1451

SEQUENCE LENGTH:61

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01605

SEQUENCE DESCRIPTION:

GATCGGGGGC ACCAGAGGGG CAGAGGCACC AACATCTGAA TAAAGCCATT GTTCTCCCAA 60
A 61

SEQ ID NO:1452

SEQUENCE LENGTH:61

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01606

SEQUENCE DESCRIPTION:

GATCTTGGAC NTCTCGCATT CAGAACTGTG AGAAATAAAT ATCTATTATT TACAAATTAA 60
A 61

SEQ ID NO:1453

SEQUENCE LENGTH:60

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01607

SEQUENCE DESCRIPTION:

GATCTCCGTC TTGTATGGCT GAATGTTGGC CTAAAATAAA GATTACTGTT GTAAAATAAA 60

SEQ ID NO:1454

SEQUENCE LENGTH:62

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01608

SEQUENCE DESCRIPTION:

GATCTGTGGA GAATGTACAC AGTTTAAACA CATCAATAAA TACTTTAACT TCCACCGAGA 60

AA 62

SEQ ID NO:1455

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01609

SEQUENCE DESCRIPTION:

GATCAAGAAT CCTGCTCCAC TAAGAATGGT GCTAAAGTAA AACTAGTTTA ATAAGCAAAA 60

AAAAAAACCA AA 72

SEQ ID NO:1456

SEQUENCE LENGTH:59

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01610

SEQUENCE DESCRIPTION:

GATCTAGATG TTTCTTAAAC CAAGATGAAT TAAAATATAG TAGAGTTCCA CTGTNCAAA 59

SEQ ID NO:1457

SEQUENCE LENGTH:63

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01611

SEQUENCE DESCRIPTION:

GATCAAAATTG TACCTTTTAA GAGAAAAGGA CCAAAATAAA AGAAAAATGA ATTATGAACT 60

AAA 63

SEQ ID NO:1458

SEQUENCE LENGTH:59

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01612

SEQUENCE DESCRIPTION:

GATCAGCAGT CTTGGATGGN AGGNAACAAA GCTAAATAAA TGTTAGTTTG GTGAGCAAA 59

SEQ ID NO:1459

SEQUENCE LENGTH:65

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01614

SEQUENCE DESCRIPTION:

GATCTCCCTT ATATTCTTAT GATGAGGCTA AATAAAAGTC TAATAAAAAT GTTAAATATG 60
TGAAA 65

SEQ ID NO:1460

SEQUENCE LENGTH:56

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01615

SEQUENCE DESCRIPTION:

GATCAAAATC AAGTTTAAAG TTTTTTGAC CAGATAAATT TAATGATTTT GGCAAA 56

SEQ ID NO:1461

SEQUENCE LENGTH:58

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01616

SEQUENCE DESCRIPTION:

GATCTTAATT ACTTTCAGAA TATTTTCAAA ATAGATATAT TTNAAAATC CTTACAAA 58

SEQ ID NO:1462

SEQUENCE LENGTH:55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01617

SEQUENCE DESCRIPTION:

GATCGTTCTT CTCTCCGTAT TGGGGAGTGA GAGGGAGAGA ACGCGGTCTG AGAAA 55

SEQ ID NO:1463

SEQUENCE LENGTH:55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01618

SEQUENCE DESCRIPTION:

GATCCCTGAG ACGGGGTAAG TTATAATAAA CAGAAATGTA TTGGCTCAGA AGAAA 55

SEQ ID NO:1464

SEQUENCE LENGTH:55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01619

SEQUENCE DESCRIPTION:

GATCTGTTAT GTATTCAAC ATAATCATGT TTCATAAAGA TTTAGTCTTC TGAAG 55

SEQ ID NO:1465

SEQUENCE LENGTH:56

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01620

SEQUENCE DESCRIPTION:

GATCCACCT TTGCTCCTGA CAACCTCAT TTCAATAAAG ACCAGTGAAG ACCAAA 56

SEQ ID NO:1466

SEQUENCE LENGTH:54

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01621

SEQUENCE DESCRIPTION:

GATCAGAATC CTGCTCCACT AAGAACGGTG TAAAGTAAAT TAGTTATAAG CAAA 54

SEQ ID NO:1467

SEQUENCE LENGTH:63

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01622

SEQUENCE DESCRIPTION:

GATCTTGAGC CTTAACTGGA CATGAGGGGC ATGAAATAA AGCTGAACTG CAGCCTCCTG 60
AAA 63

SEQ ID NO:1468

SEQUENCE LENGTH:54

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01623

SEQUENCE DESCRIPTION:

GATCTTTTCT AAATGTTATT ACTTGTAAT AAAGTCTATT TTTCTCCCGT GAAA 54

SEQ ID NO:1469

SEQUENCE LENGTH:54

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01624

SEQUENCE DESCRIPTION:

GATCTGTATA TTTTCTTA AGAGAAAATG TAAATAAAGG ATTTCTAGAT GAAA 54

SEQ ID NO:1470

SEQUENCE LENGTH:54

SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01625
5 SEQUENCE DESCRIPTION:
GATCTGCGCA TATATATATA TGTATAAAAA ATAATAAAAT AATGGAAGNT GAAA 54

SEQ ID NO:1471
10 SEQUENCE LENGTH:54
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01626
SEQUENCE DESCRIPTION:
15 GATCCTAAAT NCACGCACCC CGTGGGAGCN CAATAAAGAT TTACTGAATT GAAA 54

SEQ ID NO:1472
SEQUENCE LENGTH:53
20 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01627
SEQUENCE DESCRIPTION:
25 GATCCGCCAT CTGTAATGTC CTTGGCACAA TAAACCAAA TGTCAGTTTC AAA 53

SEQ ID NO:1473
SEQUENCE LENGTH:52
30 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01628
SEQUENCE DESCRIPTION:
GATCCCTAGT GATTACAGCC CTGAAGAAAA TTAAATCTGA ATTAATTTTA AA 52

35 SEQ ID NO:1474
SEQUENCE LENGTH:52
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
40 CLONE:HUMGS01629
SEQUENCE DESCRIPTION:
GATCCAGTGT GGATTCTNG AGTAATAACG TTGGTTTTAT TTATCATATA AA 52

45 SEQ ID NO:1475
SEQUENCE LENGTH:52
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01630
50 SEQUENCE DESCRIPTION:
GATCTTCAAT GTTTATTTTA AAATAAAATA AAATAAGTTC TTGACTTTTA AA 52

55

SEQ ID NO:1476
 SEQUENCE LENGTH:56
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01632
 SEQUENCE DESCRIPTION:
 GATCTTGAAT GAAAGTCTTC TCAGGCTGTA GGGTGGTTCC TACAACCACA GCCAAA 56

SEQ ID NO:1477
 SEQUENCE LENGTH:51
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01633
 SEQUENCE DESCRIPTION:
 GATCTCATCT GAATCCCCAA CACCCAATAA AGTTCCTTTT TAACACACAA A 51

SEQ ID NO:1478
 SEQUENCE LENGTH:55
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01642
 SEQUENCE DESCRIPTION:
 GATCAAAATC CTATTTAGAA AAAATAAAAC TACTTTCTGT TTATCTCTTT AGAAA 55

SEQ ID NO:1479
 SEQUENCE LENGTH:34
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01671
 SEQUENCE DESCRIPTION:
 GATCCAAAAA CATCGTGAA CCTCTGTCTG TAAA 34

SEQ ID NO:1480
 SEQUENCE LENGTH:305
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01673
 SEQUENCE DESCRIPTION:
 GATCAAAATA AAGGATGATA ATAGATATTA TTTTINCTTA TGACAGAAGC AAATGATGTG 60
 ATTTATAGAA AAAC TGGGAA ATACAGGTAC CCAAAGAGTA AATCAACATC TGTATACCCC 120
 CTTCCAGGG GTAAGCACTG TTACCAATTT AGCATATGTC CTGCGAGAAT TTTTTTTTCT 180
 ATATATACAT ATATATTTT AACCAAAATG AATCATTACT CTATGTTGTT TTACTATTTG 240
 TTTGACATAT CAGTATATCT GAAACACCTT TTCATGTCAA TAAATGTTCT TCTCTAACAT 300
 TAAA 305

SEQ ID NO:1481

SEQUENCE LENGTH:734

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01686

SEQUENCE DESCRIPTION:

GATCCAGCCC ATTCTCTACT CTTACTCCTT TCATGGGCCA CCAGAGCCAG TACTCTTGGA 60
TAGCAGCAGC ATTCTAGCTG ACAGAATTTT GCTGATGGAT ACTTTCTTTC AAATTGTCAT 120
TTATCTTGGT GAGACCATAG CCCAGTGGCG TAAAGCTGGC TACCAGGACA TGCCCGAGTA 180
TGAAAACCTT AAGCACCTTC TGCAGGCACC ACTGGATGAT GCTCAAGAAA TTCTGCAAGC 240
ACGCTTCCNG ATGCCACGTT ACATCAACAC GGAGCATGGA GGCAGTCAGG CTCGATTCCT 300
TTTGTCCAAA GTGAACCCAT CTCAGACACA CAATAACCTG TATGCTTGGG GACAGGAAAC 360
TGGAGCACCC ATCCTAACTG ATGATGTTAG CCTGCAGGTG TTCATGGACC ATTTGAANGA 420
AGCTGGCTGT CTTCCAGTGG CCTGTAAAG CTGAGGATAC AACCAGGGAA ATGCAAACGG 480
TNTCAAGATT TGGTGGTTCA AAATTGTCTA GAAAGGTTT GATAACCATT CCNGGTTACT 540
TTTTCTTNGG ANGTTTAAAC CAAATAATCA ANGGCNATTT TATTATGGAA CCTCTTTAGG 600
TTATAATTNA TTNGGAATNC CGNCNTTGGC CTTTCTTGN CTTTAAATT TTAAGGGAAN 660
AAANNTTGG GCNTNAGNG GTTNGGNTT TTTGGNNCA ACTTTNGGN TTAATAAANC 720
NGGGGNTNT TAAA 734

SEQ ID NO:1482

SEQUENCE LENGTH:731

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01687

SEQUENCE DESCRIPTION:

GATCAACCGG AGCGCTTCCG AGCCATCCTT GCATCGGGCA GCCCAGACTG AGGATATCAA 60
TGCTTGACAG CTGACCACGT CCCCAGGGCT GCCTGTNTTC TAGTTGACTT TGCACCTGTN 120
TTCAGGCTGC CAGGGGAGGA GGAGAAGCCA GCAGGCACCA CTTTCTGCT CCCTTCTCC 180
AGAGGCAGAA CACATGTTTT CAGAGAAGCT GCTGCTAAGG ACCTTCTAGA CTGCTCACAG 240
GGCCTTAAC TCACTGTGCC TTCTTTCTA TCCCTTTGGG CCCTGGGAGA AGGAAGCCAT 300
TTGCAGTGCT GGTGTGTCCT GCTCCCTCCC CACATTCCCC ATGCTCAAGG CCCAGCCTC 360
TGTAATGCG CAAGTGGGAT GTTGATGTA GTACAAAAG CAGGGGCCA GCCCAGCTGT 420
TGGCTACATG AGTATTTAGN GGAAGTAAG GTAGCAGGCA GTCCAGCCCT GANNTTGGAG 480
ACACATGGGG TTTTGGAAA TAAGNTTCTT GNGGGATGAA TGTAACAGGN GGGNTTCTT 540
CANGGAGTGG TNCAGCNCAG ACATTTNNAC ATAAGGACCA AACAGCCCAG NNTNCCGNAT 600
TTTGNCNCCC AAGNGCCTT TTTGGACTTG GANCTTTNT NGGGGAAAG CNCTTNAANG 660
TTTAAGNGCC AGNATNGGTG TTTGNGAAG NATTGCCATC CGATTTAGCC TTTANGGGAN 720
GTCCANAAG N 731

SEQ ID NO:1483

SEQUENCE LENGTH:687

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

EP 0 679 716 A1

CLONE:HUMGS01688

SEQUENCE DESCRIPTION:

5 GATCGGTGGC TCCATCCTGG CCTCACTGTC CACCTTCCAG CAGATGTGGA TTAGCAAGCA 60
 GGAGTACGAC GAGTCGGGCC CCTCCATCGT CCACCGCAAA TGCTTCTAAA CGGACTCAGC 120
 AGATGCGTAN ATTNTGCTGC ATGGGTTAAT TGAGAATAGA AATTTGCCCC TGGCAAATGC 180
 ACACACCTCA TGCTAGCCTC ACGAAACTGG AATAAGCCTT CGAAAAGAAA TTGTCCTTGA 240
 AGCTTGTATC TGATATCAGC ACTGGATTGT AGAACTTGTT GCTGATTTTN ACTTTGTATT 300
 10 GAAGTTAACT GTTCCCTTGT GTATTAACGT GTCAGGGCTG AGTGTCTGG GATTTCTCTA 360
 GAGGCTGGCA AGAACCAGTT GTTTGTCTT GCGGGGTCTT GTCAGGGTTG GAAAAGTCCA 420
 AGCCGTAGGA CCCAGTTTC CTTTCTTAAG CTGATGTCTT TTGGCCAGAA CACCGTGGGC 480
 TNGTTAATTG CTTTAAAGTT GGAAGCGGT TTGCAATTAC GGCNCTAAAA NGTATTCATC 540
 CTNAATTNAA GGAAAGGGTT TTTTGTGTAC CGAAANNNGC ATTCTTTGAA GNGNTGNCAC 600
 15 CAAATTTTGG GTTTTCANCC GGTAAGGGGN GACATTAGGN CCCAGNACAA GGNATTNTGA 660
 AAGGGAANAN AANGGCNCC GAAAAAN 687

SEQ ID NO:1484

SEQUENCE LENGTH:649

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01689

SEQUENCE DESCRIPTION:

25 GATCAAACTG TATTGCCAG GCCAGCTCCT GAAGAACTGT GAACTATGAA CGTCTCAGCC 60
 TAGAAGGATA ATGTGACCTT CAATTGACAC ACCATCCATT GTCTCTTTCA AACTAAGAGC 120
 CTCTCTAAGC TAGATAGGCC AAGGATTATT TTTTAACTT TTATTTTAGG TTCAGGGGTA 180
 CATATACAGG TTTGTTACAT AGGTAACCTC ATGTCATGAG GGATTTTGTG TAGATTATTT 240
 GGTGACCCAG GACTAAACC TAGTACCCAT TAGTTGTTT TNCTGCTCCT CTCCCTCCTC 300
 30 TCACCCTCCA CCCTCAGTTA GTTCCCAGTG TGTGTTGTTT CCCCACATCT ATCCATGTGT 360
 TCTTATTATT TAAGCTCCCA CTTATAAGTA AGAACATGCA GTGTTTGGTT TTCTGTTCCC 420
 GATTAGGTAA TGCTGAGGGA TAATGGCTTC CAATTNCCAT CCATNGTTTC TGCAAAGGAN 480
 CATGNNCTCA TTNCTTTAAA TATGGGCTNG CATAGNNGTT CCATGGGNGG TGAATGTACC 540
 35 ACATTTTCCT TTNANCCAGG TCTNATCAAT TGGNGGGCCA TTGNGGGTGA TTCCAAGGCT 600
 TNGGTAATGG TGAANAGGGC ACAATAANCC AGTACCATGG GGCATGAAA 649

SEQ ID NO:1485

SEQUENCE LENGTH:549

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01691

SEQUENCE DESCRIPTION:

45 GATCCTCTGA TGGGAGCTGA AAGGATGAGA GGTGGGCATC TAGATTTAGG GAGGCTGTTT 60
 AGGCTTTTGA GGTCCCTTAC CTGAACACAT AGAAACCCTG GAGCTGTGAC TGTGTCCATG 120
 TGTGTGTGTT TGTCTGTGTG TGTTGCGGGG GATGGGCACC TGCATGAATG TGGTAGAGAA 180
 AATGGCTCTG CTCAGAGGGA AGATACGCAT AGCAAGGCAG GGACCAGAGG AATCACAGGC 240
 GCCTGGAGAG CAGCCGGGCA ACGNCTCCAG GGACCTGCCG GCTTCCCTCA GTCCTCCAGG 300
 50 GGCCAGCAC TCTTCTTTA GGCCCTGTGA GCGTCCCTTG TCAGGATACA TTCTCTCATT 360

55

5
TTGCTGAAGC TGATTTGATT GGGTGTCTGT TTCTCGCAGC CAAAAGAGCT CTGAAATGAG 420
GAAAGTGCTT CTGTGCTAAC TCCCCGGGTC TCCTGAATTT CAGTCATTCA TGTACCCGCC 480
TCGAAATTTT TTGCAATATC TGTGTACCCA ATGTCCATTT AATTAATAAA GAAGTTTTCT 540
TAAATTAAA 549

10
SEQ ID NO:1486
SEQUENCE LENGTH:543
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01692
SEQUENCE DESCRIPTION:

15
GATCGANGTT TACCTTGTGT CAGGAAAAAA TGTGGGGTAT GCCAAGTATG CCGATAGAAT 60
AAGTNCTAAT GATGCCACTN GCCACTCTAC ATNGAAAGAT TCTGAATGGG GTGAGACTTA 120
AAGTTATGCT GGCAGATTCG CCAAGAGAAG AATCTAACAA ACGGCAAAGA ACTTACTGAT 180
TCTTGAGAAC ACCCGACTAA ATAATGACAT ANTCTCAGC TGA CTGACTG AAAATGTGAC 240
TGGACGCATT CCTGTGGAC AGTTGACAGC TTTTTTTTTT TCCATATACC TGNTAGTCTG 300
20
TGTCCAGCAT TGTTTGTCT GGGGAAGCAGG GTTGCTGNC ATGTATTTN NATTCATAC 360
ATTANTGCTA AACCGNTTAT AGTAGTTGTN CCTAGNGCA NTATGTTGTT ACGTGTAGCA 420
GAANTAAAGT TTTCTTTGCT TTANCTAAAT CATGNCTTTA TTTNTGNAA GGGCAGGACC 480
GGGAAATTTT ATTNNGCAGT CTTTGGNTTT TGCCTAATGN CATTGNCATG NNTTTGGGGT 540
NCN 543

25
SEQ ID NO:1487
SEQUENCE LENGTH:533
SEQUENCE TYPE:nucleic acid
30
TOPOLOGY:linear
CLONE:HUMGS01693
SEQUENCE DESCRIPTION:

35
GATCCAGAGT TGCATACAGA CCAATTCTG CATCAGTGTT ATCTCGACCA GAGGCTAGTA 60
GGACTGGAGA GGGCTCTACG GTATTTAATG GGGCCCAGAA TGGTGTGTCT CAGCTAATCC 120
AAAGGGAGTT TCAGACCAAGT GCAATCAGCA GAGACATTGA TACTGCTGCC AAATTTATTG 180
GTGCAGGTGC TGCAACAGTA GGAGTGGCTG GTTCTGGTGC TGGTATTGGA ACAGTCTTTG 240
GCAGCCTTAT CATTGGTTAT GCCAGAAACC CTTGCTGAA GCAGCAGCTG TTCTCATATG 300
CTATCCTGGG ATTTGCCTTG TCTGAAGCTA TGGGTCTCTN TTGTTTGATG GTTGCTTTCT 360
40
TGATTTTNTT TGCCATGTAA CAAATTACTG CTTGACATGT TGGCATNCAT ATTAATTACG 420
GATGNAATCC TGGGNANCTA CCTGTNCTC CGAAAACCTG TAGGTANTTG GGGGTCANGG 480
GGAATTGNNC GGTAATTCCC AAAGCCATTT NATTAAGGN GGAACCTTT AAA 533

45
SEQ ID NO:1488
SEQUENCE LENGTH:531
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01694
50
SEQUENCE DESCRIPTION:

GATCCAAAAG ANCTGCTTTC TGAAGCAAGT TTCCAAGANG CTCTTCAGGA AAGCATTCTT 60

EP 0 679 716 A1

GACATTCAAG CGCACGAGTG GGTGCCGCTG TGGCTACTGC GGTATTCGGT CATTGTGAAA 120
 AGTAGAGGAA TTATCAAATC AAAAGGCTAC ATTTTACAAG CTAAGAAG GGGTTCCTAA 180
 CTGACTTAGG AGCATAACTT ACCTGTAATT TCCTTCAATA TGAGAGAAAA TTGAGATGTG 240
 TAAAANTCTA GTTACTGCCT GTAAATGGTG TCATTGAGGC AGATATTCTT TCGTCATATT 300
 TGACAGTATG TTGTCTGTCA AGTTTAAAT ACTTATCTNG CCTCCATATC AATCCATTCT 360
 CATGAACCTC TGTATTGCTT TCCTTAAACT ATTGNTTTC TAATTGANAT TGTCTATANG 420
 GANATNCTTG CAATATATTT NNNCNTTANT TTTTATGNCT AATATNAATN CAGGNNAATT 480
 TGTGTTTGG TATTTTGGG CNNGGGITCC GGGGAATGNT TNTNCANNTT N 531

SEQ ID NO:1489

SEQUENCE LENGTH:526

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01695

SEQUENCE DESCRIPTION:

GATCGGCGTG ACCANCCCTT GCCGGAGGTG GCCCATGTCA AGCACCTGTN TGCCAGCCAG 60
 AAGGCACTGA NAGGAGAAGG AGAAGGCCTC CTGGAGCAGC CTCTCCATGG ATGAGAAAGT 120
 CGAGTTGTAT CGCATTAAGT TCAAGGAGAG CTTTGCTGAG ATGAACAGGG GCTCGAACGA 180
 GTGGAAGACG GTTGTGGGCG GTGCCATGTT CTTTCATCGGT TTCACCGCGC TCGTTATCAT 240
 GTGGCAGAAG CACTATGTGT ACGGCCCTT CCCGCAAAGC TTTGACAAAG AGTGGGTGGC 300
 CAAGCAGACC AAGAGGATGC TGGACATGAA GGTGAACCCC ATCCAGGGCT TAGCCTCCAA 360
 GTGGGACTAC GAAAAGAAGC AGTGAAGAA GTGAGAGATG CTTGGCCTNC GGCTTCAACT 420
 TCGGGCTGGC TCTTTCACCG CCATGCAAAC TCCATGCCTA TTTACTNGGA AACCTGTTAT 480
 NCCAAACAGT TGTNCNCTGC TAATAAATTG NCCAGTTTAC CTGAAA 526

SEQ ID NO:1490

SEQUENCE LENGTH:525

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01696

SEQUENCE DESCRIPTION:

GATCAGCAGA GGNATCAAAC CAACACCTTC TTTGGCTCCC CTCCCGCAGC CACAGAGGCA 60
 ACCCACGTTG TCAGCACCAT CCTGAGTCA TTACAATAGC ACCCTGCAGC TATGCTGGAA 120
 AACTGAGCGT GGGACCCTGC CAGACTGAAG AGCAGGTGAG CAAAATGCTG CTTTCTGCCT 180
 TGGTGGCAGG CAGAGAACTG TCTCGTACTA GAATTCAAGG AGAAAAGAAG AAGAAATAAA 240
 AGAAGCTGCT CCATTTTCA TCATCTACCC ATCTATTTGG AAAGCACTGG AATTCAGATG 300
 CAAGAGAACA ATGTTTCTTC AGTGGCAAAT GTAGCCCTGC ATCCTCCAGT GTTACCTGGT 360
 GTAGATTTT TTTCTGTAC CTTCTAAAC CTCTCTCCC TCTGTGATGG TTTTGTGTTT 420
 AAACAGTCAT CTNCTTTTAA ATAATATCCA CCTNCTCTT TTGCCATTTC ACTTATTGGN 480
 TCCATAANGT GAATTTTAA TTAAGGTTAT GCCACACATG CATGN 525

SEQ ID NO:1491

SEQUENCE LENGTH:522

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01697

SEQUENCE DESCRIPTION:

5 GATCAGCTGT TTGTCATAGG GCAGTTGGAA ACGGCCTCCT AGGGAAAAGT TCATAGGGTC 60
 TCTTCAGGTT CTTAGTGTCA CTTACCTAGA TTTACAGCCT CACTTGAATG TGTCACTACT 120
 CACAGTCTCT TTAATCTTCA GTTTTATCTT TAATCTCCTC TTTTATCTTG GACTGACATT 180
 TAGCGTAGTA AGGTGAAAAG GTCATAGCTG AGATTCCCTG TTCGGGTGTT ACGCACACGT 240
 10 ACTTAAATGA AAGCATGTGG CATGTTTCATC GTATAACACA ATATGAATAC AGGGCATGCA 300
 TTTTGCAGCA GTGAGTCTCT TCAGAAAACC CTTTCTTACA GTTAGGGTTG AGTTACTTCC 360
 TATCAAGCCA GTACGTGCTA ACAGGCTCAA TATTCCTGAA TGAAATATCA GNCTAGTNGN 420
 CAAGCTCCTG GTCTTGAGAT GTCTTCTCGT TAAGGAGATG GGCCTTTTGG GGGTAAAGGN 480
 TAAATGGAT GAGGTCTGNC ATGNTTCACT ATTCTAGGAC TN 522

SEQ ID NO:1492

SEQUENCE LENGTH:509

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01698

SEQUENCE DESCRIPTION:

20 GATCCCAACA ATATTCCAA GGCCTCAATG ACAAGTGGTT TGGTTCAGCA GTTCCAACAC 60
 ACAGTCCTTC CCTCAGTGAC TCCCTTGGNN CCCTCATCTG CACACTGATT GCCATATTGC 120
 25 CCTCTATTTT CTGTCTTTGG TTTAAACCCC AAGGGCCCAG AGGCTTTCTC CGATGTCTAA 180
 CTCTTTGTGC CTTGAGCTCC TTTATGTTTG GGTGGCATGT TCATGAAAAA GCCATACTTC 240
 TAGCAATTCT CCAATGAGC CTTTGTCTG TGGGAAAAGC AGGAGACGCT TCGATTTTTC 300
 TGATTCTGAC CACAACAGGA CATTATTCCC TCTTCTCTCT GCTCTTCACT GCACCAGAAC 360
 TTCCCATTA AATCTTACTC ATGTTACTAT TCACCATATA TAGTATTTCG TCACTGAAGG 420
 30 ACTTTATTCA GAAAAGGAAA AACCTCTTTT TTAATTGGGA TGGGAACTTT CTANCCTGCT 480
 TTGGNCNGGG GGCCTCTGGG AAGGNCTTN 509

SEQ ID NO:1493

SEQUENCE LENGTH:497

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01699

SEQUENCE DESCRIPTION:

40 GATCCTGTCA AAATAGTCCG ATGCCATGAA CATATAGAAT CCTTACAGTA AATGGAGAAT 60
 TACTCTTTTT TAGACAAAGA GAAGGGCCTT TTTATCCAAC CCTAAGATTA CTTACACAAAT 120
 ATCCTTTTAT CCTGCCACAC CAGCAGGTTG ATAAAGGAGC CATCAAATTT GTACTCAGTG 180
 GAGCAAATAT CATGTGTCCA GGCTTAACTT CTCCTGGAGC TAAGCTTTAC CCTGCTGCAG 240
 45 TAGATACCAT TGTGCTATC ATGGCAGAAG GAAAACAGCC TGCTCTATGT GTTGGAGTCA 300
 TGAGATGTCT GCAGAGNCAT TGNAAAGTCA CCAAAGGATT GGCATTGAAA ATATCCATTA 360
 TTAAATGAT GGGCTGTGGN TATGAGGCAT ATAAATGNGC TCAGAGGGAT GCACTTGGGT 420
 NAATATGGNT ATTGTGCTGT ATCTGTGTTG TGNCTGTGTG TGCANCTGAG GTATGCCTGT 480
 50 GGTNTGCTGA TAAATCN 497

SEQ ID NO:1494

SEQUENCE LENGTH:472

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01700

SEQUENCE DESCRIPTION:

GATCAAAATA TCATGGATTG AACCTCATCA ATTGATAGCA GTGAGTGACT GANGCTTCCA 60
AATCAAGAAA AGCCGGCACC AAGAAGTTCC ATTCTAATCT AGAGCTGACC AGTTTGAGCT 120
GATTCTNTCT TTGAAGAGTC CTTCTTGATT GCAGTGCAGT ACTGGCATT CTGAATGGAT 180
GTANGNGGAG TATTTTAGTC TAAAGGCTTT TCAAATTACT TGAATTTTTT TAAAAATTGA 240
GGAGCTTTAT TTCTATTAC CTTTCCATT TTGTATATCA AATTTCATN GTCATTAAAA 300
ACTGTATCTT GAAACTTTGT GAACTGACTT GCTGTATTTG CACTTTGAGC TCTTGAAATA 360
ANTGTGATT TNGTGTGATT ATCTGGTTTC CNGTTTTAAC CATTACCTGT CACCNTTNAT 420
CCTTAACCTT GAAAGTCCAG AAACCATNNN ATTATTAAGG TNGTCCAATA AA 472

SEQ ID NO:1495

SEQUENCE LENGTH:496

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01701

SEQUENCE DESCRIPTION:

GATCTGTGTG GATGGCAAAC TCCCCAGGCC ATTCTGGGAC CTAAGTTTAA GAAGTGCCGT 60
CCTCGAACTT NCTGACTCTA AGCTCCTGAG CGGGAGTNAG ACTTAGCCCT GAGCCTGCAC 120
TTCCTGTTCA GGTGCAGACA CTGAACAGGG TCTCAAACAC CTTACAGCATG TNTNTTGTGT 180
GCTCACGTGC CACACAGTGT CTCATGCACA CAACCCAGTG TACACACCAC CTACATGCAC 240
ACAGCGTCTT TNCACACTGT GTATGTGAAC AGCTTGGGCC CTGCAACACA ACCATCTACA 300
CACATCTACA ACCNNAGGA CACACACATG GGTCCGTGCC ATGTCACCTC CNTAGGGGAN 360
GGNTTTCTTT CCAAGGTGTN GCCAGGCCAG GCAAGCCTTC CAGGCCATGA ATTCCTTACT 420
TAGGTACCTN GGGGTTTGGG GTGGGNGNCC CAGNCAAAAT TCTNGGGTTN CGTNCNCTTT 480
GGTTNNGNCC AGNTTN 496

SEQ ID NO:1496

SEQUENCE LENGTH:492

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01702

SEQUENCE DESCRIPTION:

GATCCTGTAC AGCCAGTGTG GGGATGTGAT GAGGGCCCTG GGCCAGAACC CTACCAACGC 60
CGAGGTGCTC AAGGTCCTGG GGAACCCCAA GAGTGATGAG ATGAATGTNA AGGTGCTGGA 120
CTTTGAGCAC TTTCTGCCCA TGCTGCAGAC AGTGGCCAAG AACAAGGACC AGGGCACCTA 180
TGAGGATTAT GTCGAAGGAC TTCGGGTGTT TGACAAGGAA GGAATGGCA CCGTCATGGG 240
TGCTGAAATC CGGCATGTTT TTGTCACACT GGGTGAGGAG ATGACAGAGG AAGAAGTAGA 300
GATGCTGGTG GCAGGGCATG AGGACAGCAA TGGTTTGTAT CAACTATGAA GAGCTCGTCC 360
GNATGGGTGC TGAATGGCTG ANGGACCTTT CCCAGTNTTC CCCAGATTNC CGTTGCCTTT 420
CCNTNGTGTG AATTTTGGTN ATCTAAGCCT AAAAGTTTTC CCTAAGGCTT TCTTGTCTTC 480
AAGCAACTTT CN 492

SEQ ID NO:1497

SEQUENCE LENGTH:490

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01703

SEQUENCE DESCRIPTION:

GATCCAAATA CACAGAATCA AGGGAAGGAG TTGCTTCTTC TAAGAGTGAT GCTTAATCTT 60
 TTGGGTCATG GATGAATTGA AGATTGATT AAAGTTACAA TAAAAAGAGN CCCNTCAAA 120
 GCACGTACAN NCTGTATCAC GAACGGTGCC TGGCCTACTT TTTCCTTTTC TACCCACCCC 180
 ACCCCAACCC CCCCTGTCTC AGTGAAAACC TGGTTGTTAC TAAAGTGAAA CTTTAATAAG 240
 GATATTGCCT AGGGAAGATT AGTTGTTTTT CTTGTCATT C AAGTTCATT TGGACCTCTT 300
 CCTCTGAGCT GTTAATCAGT GTTGCTAAAC AGACAGGGAA AGACAAGGGA GAGAAAAATG 360
 CTGATTCATT CTTCAGAACT TTAACCNNT TTAACCNCTA ATTCTTCTCC TTGAGAAGCT 420
 ATTCTTTGAT TGTGAAAGCT TTGTTGTTCA GGGNAATATG GGGTAATAAA AATAGCTAAC 480
 CATTTTAAAA 490

SEQ ID NO:1498

SEQUENCE LENGTH:477

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01704

SEQUENCE DESCRIPTION:

GATCAAACTT CCATATTGTC CTTGGGAATA ATGGACAAAG GGAAATACTC TTAATTCATG 60
 AATAAAAACT TTGCAGAAAA TTAGACAGTG TTTAATTTTC GAAAACTTCC CTCTCTAGAC 120
 AGTAGATACC ACCTACTGAT GGTACATAT ACTAGGGAAA TTTTAAATTT AGGAAATGCT 180
 GATAGCTCAT ATTATAAAT TCTAAATCCT AGGAAGAAAAC GCTTGGAGTG CTTCTGAATA 240
 TACAGAAGTT CCATTAAAGG GCAAGTTTCC CCGTAGATGT ATCAAAATAC TACCAACTGT 300
 AAATTGAGGT TTAATCCCA AATGTATTCT ACTTGTCTA AAACAATCTG TCCNCAAATA 360
 TANAATAATA AAGTAATAAA TTGTTATTTT CCGCACCAAT GGGGNATCTC TAATGGTGGA 420
 AAATGGTAAT CCTATGGAAT ATTAATTTTT TTTAANTAAA ANGGTNATTT TAATAAA 477

SEQ ID NO:1499

SEQUENCE LENGTH:476

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01705

SEQUENCE DESCRIPTION:

GATCCCCGAG TCTTCACAAA TNCTCACTGA AGAAAAATTC TGAACAATT CAGGGTCCTT 60
 TCATAACCTC TACTCTGAGG TGTTANTAAA AAACCTTAGT AACTTAAAAA AAATGAGCTG 120
 TACACAAATA CTGAACAATA ATGCTNCNTA TGTTAAGTAT GTANGAAAAA TATATACTTT 180
 GACATANATA AGAAACGGTG AGTTGATAAT TGGATAGAAT GGTGGATAGA GTGATAGATA 240
 TGTAGTAAAG CAAATATAAC AAAATGATAA TTGTACAATC TAAGTGGTTG GACTATAAAT 300
 ATGCACTTCC CACAACNTT TTATATGNTT AAACAGTTTT ATAATACCAT ATTANGGGAA 360
 ACTGTTTGTC TCAAGGAAAT AGAGNTTGTG ATATGTTCTA GTNCAATGNA GGTGTAATCA 420

TGGTNAAATT AAAAGCTTTT ACTTCCTGGG CAATTAAAGG TAATCCTGGT AGGAAA 476

SEQ ID NO:1500

SEQUENCE LENGTH:488

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01706

SEQUENCE DESCRIPTION:

GATCCTGACT GCTGTCATGG CGTGCCCTCT GGAGAAGGCN CTGGATGTGA TGGTGTCAC 60
 CTTNANAAG TACTCGGGCA AAGAGGGTGA CAAGTTCAAG NTAACAAGT CAGAACTAAA 120
 GGAGCTGCTG ACCCGGGAGC TGCCAGCTT CTTGGGGAAA AGGACAGATG AAGCTGCTTT 180
 CCAGAGCTG ATGAGCAACT TGGACAGCAA CAGGGACAAC GAGGTGGACT TCCAAGAGTA 240
 CTGTGTCTTC CTGTCTGCA TCGCCATGNG GTNTAACGAA TTCTTTGAAG GCTTCCAGTA 300
 TAAGCAGCCC AGGANGGAAA TGAAAACCTC TCTGATGTGG TTTNGGGGGG TCTGCCAGCT 360
 GGGGGCCCTT CTGNGTNGNC CANTGGGGNA CTTTTTTTTT TTTTCCACC NTGGGNTCCT 420
 TTNANGANAA NGGGCTTNGA TTGCTTGAGC AAAGTTTCAA ATAAAAGNTT TNTNGGGAAG 480
 NTTTTAAA 488

SEQ ID NO:1501

SEQUENCE LENGTH:472

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01707

SEQUENCE DESCRIPTION:

GATCCAGAAG CTGATGGATG TGGGTCTGAT TGCAATTCGG TGATGACTTG TTCATACCCC 60
 CTTCCCTTCG CCTCATGTG GAAAGAGGAG CTGGGACCGC GCGGAGCAGC ACGGAGCGGA 120
 AGGGAGAGCA GGGGAGAGAA GGCCTCATNT CTCTATATTT ATACATAACC CCGGGGAAGA 180
 CACAGAGACT CGTACCTGCG CTGTTTGTGC CGCCGCTGCC TCTGGGCCCT CCCAGCACAC 240
 GCATGGTCTC TTCACCGCTG CCTCGAGTT CCATGTCTCT TTCCCCTGCC CCTAGTTGCT 300
 GTCTCGGCTG CTCTCCATA GTTGGTTTTT TTTTINATTT GGGGCAGTGG GCATGTTAAT 360
 GGGGGAGGGG AGGGGGTTCT TCCAGCCTNA GGTCCCAGTT GGTCTNACGT NGTTTAATTC 420
 TTGGGTCCCC TTTTCCAAT TAAAACAAGC CANTNGGGGC GTGGGTTNTA AA 472

SEQ ID NO:1502

SEQUENCE LENGTH:469

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01708

SEQUENCE DESCRIPTION:

GATCGCAAAT TGCTNGAGCT GTTGTGGAAT AAATACTGGG TGAATACGTT GAGTTCTTCT 60
 AGCTTGCTTA CTAATGCAGA CTATACCACT GGTCAAGTCT TTGATTGTC TGAAAAGTTA 120
 GAGCAGTCAG AAGCCCAGCT GGGACGAGGG AGTTTCATGT TGGGTTTAGA AACGCATGAC 180
 CGAAAATCAG AAGACAAACT TGCCAAAGCT ACAAGAGACA GCTGTAAAAC TACCATAGAA 240
 GCTATCCATG GATTGATGTC TCAGGTAAAT TAAGGATAAA CTGTTTAATC AAATTAACAT 300
 CTCTCCACA GTCTCTGAGA AGGGCTNTAC CTGAAAGACA GTATGNNGGA AAATATTCAA 360

GGTAACACTT TTAANCCAG TTNCCNAAAA TCTGATTAGG ANGNTANGG TTCTCTGAAG 420
 TGGTCTCTAA TATTANTATC CCTGTAATAA ANGCTCTTTA AANTGGAAA 469

SEQ ID NO:1503
 SEQUENCE LENGTH:466
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01709

SEQUENCE DESCRIPTION:

GATCTGCAGT GGCTGTTTGA CCAGACCACA AAGTTCACAT CTCCTGAGCT TAGTGTCGGT 60
 GGCTGTCCAC CTCCCAGCCA TACTTGACTG TCCCCAACT CTCCTGCAG CCACATGTTT 120
 CCCATGACCT GTGGGCTCTG CAGATGGACC TCTCTCCGCT AGAGATGCCC TTCTCCCAA 180
 TGGCTTCCCT CCTGGAAGGC CCAGCCTGAG TCCTCGTCTC CTTCCAGTG CTTCTGCCAG 240
 AAGCATCCCC ATGATGTTGT GACCGCACAG CACTTTGTGT CTTGCTTTGA GCACTTGCCA 300
 CTCTGGCTGG TGCTGTGCC ACTGATTGTG TACTGTCTTG CTGCCCTTC TAGACTGTGA 360
 GCTCCTCGTG GGCAGGACC GCCTGTGTTT TCTGTATTC CCACGGAGCC TAAGNACAGT 420
 GCCTTGCACT TGATAAGGTG CTTAATAAAT GTCTGNTCAA CTGAAA 466

SEQ ID NO:1504
 SEQUENCE LENGTH:465
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01710

SEQUENCE DESCRIPTION:

GATCACTGTG TTCAGTGTG TTGGAATGGA TTCAGACTGG CTAATGGGGG AAAGGGGAAA 60
 CCAGAAGGGC AAGGTGCCAA TTACCTACTT AGAACTGCTC AATTAAGTAG GTGGACTATG 120
 GAAAGGTTGC CCATCATGAC TTTGTATTTA TATACAATA ACTCTAAATA AAGCAGGTTA 180
 AGTATCTTCC ATGTTAATGT GTTAAGAGAC TGAATAATACC AGCCATCAGA AACTGGCCTT 240
 TCTGCCAATA AAGTTGCATG GTAAATATTT CATTACAGAA TTTATGTTAG AGCTTTCATG 300
 CCAAGAATGT TTTCTTACAA AATTCTCTTT TTATTGAGGT TTCACTAATA AGCAGCTTCT 360
 ACTTTTGAGC CTCAACTTAA AGCAGANCTG TTTTCTACTG GGATTTTTC TTAACAGCAA 420
 GCCTTTTCTT TTTATGTAAA ATTAAATCTA TTGTGGAATT TGAAA 465

SEQ ID NO:1505
 SEQUENCE LENGTH:462
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01711

SEQUENCE DESCRIPTION:

GATCTTGTCT TAAAACATG ATAGTCCTTT CAGTATAATG TCTTAGATTA AAGACGTTGC 60
 CTTTAATATC TGTGGGAAG GAAATGTCCA GACTTTTCAA ATCTCTTATT ATATGTTTCC 120
 TTTTNTTGT TACATAGGGA ACAATGTTTA TAGTCGTGTG TACAGTGGGG GTCTACANCN 180
 NGAAGTGAT ATTTTCAAAC AATTTTTTAA NGATTTAACA ATTTTGTAA ATCATTITCA 240
 GGCTTCTGCA GCTGTAGATT CTCAGTGTGA ATCCCTTGCT TGCTCATGCA TAAGTGTATT 300
 TGCAATACCA NATATACAGG TTAGTATTTT TTGCCTGTTA GTNGATTGTT TCACATGNGT 360

AACGTNTTGG GTGAGATGTT ANATGGTTGG NCGAGGTACT GTGGANGTGA ATGTGGGNAG 420
 TAATTTTAAAN NCATATGNAA TTGGTCACCA GGGCCNAATT TN 462

SEQ ID NO:1506

SEQUENCE LENGTH:459

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01713

SEQUENCE DESCRIPTION:

GATCCCAAGC AGGCTCACAA ATTTAAATGA GGGCTTTGTG TGCAGAAAGA GGAATAAGTA 60
 CAGATTATTT TCCTACCACT AGATTTTGG GGAGAGTCAC CATGGAATGT TGACAATTAC 120
 TTAATAATTT TTAAGCTCCC TTGCTGAATT CCTGTCCTGT CCCTGAGGAA TCAGATGGTC 180
 ATACAGCCAT AGGCACCCAC CCGAAATTTT CCTAGGAGTT GGAGTAATGC TAGAATTGAA 240
 GACCTTCTGA GTAAAGGGCT TCTCTGCCTT CTCAGAGGCA GGAGAATTG CACTGGTTGT 300
 GTTAAATGTA TAAAAAGCTA TATGTTACCC AGTTTACTCA TTTCCAATGT GTAGATGAAT 360
 AAAATGTAGT GTACAAATTA TTTGAAAATC CCAGAAGGGA AGGTACTTTT CAAANACAGT 420
 ATTTTTTTTA ACAAATAAAC TTACGNTTTT TACAGCAAA 459

SEQ ID NO:1507

SEQUENCE LENGTH:454

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01714

SEQUENCE DESCRIPTION:

GATCTCCTGT CCATCAGCCA GGACAGTCAG CTCTCTCCTT TNAGGGCCAA TCCCCAGCCC 60
 TTTTNTNGAG CCAGGCCCTCT CTCACCTCTC CTACTCACTT AAAGCCCGCC TGACAGAAAC 120
 CACGGCCACA TTTGGTTCTA AGAAACCCTC TGTCATTGCG TCCCACATTC TGATGAGCAA 180
 CCGCTTCCCT ATTTATTNAT TTATTTGTTT GTTTGTTTTA TTCATTGGTC TAATTTATTC 240
 AAAGGGGGCA AGAAGTAGCA GTGCTGTGTA AAGAGCCTAG TTTTAAATAG CTATGGAATC 300
 AATTCAATTT GGACTGGTGT GCTCTCTTTA AATCAAGTCC TTTANTTAAC ACTGAAAATA 360
 TATAAGTCA GATTATTTTA ANTGGGNATA TTTATAANTG NGCAAATATC ATACTGTTCA 420
 NTGGGTTCTG GAATAAACTT CACTGGAGGG NAAA 454

SEQ ID NO:1508

SEQUENCE LENGTH:453

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01715

SEQUENCE DESCRIPTION:

GATCGAGCAG TGTGACTACC CCCCACTCCC CGGGGAGCAC TACTCCGAGA AGTTACGAGA 60
 ACTGGTCAGC ATGTGCATCT GCCCTGACCC CCACCAGAGA CCTGACATCG GATACGTGCA 120
 CCAGGTGGCC AAGCAGATGC ACATNTGGAT GTCCAGCACC TGAGCGTGGA TGCACCGTGC 180
 CTTATCAAAG CCAGCACCAC TTTGCCTTAC TTGAGTCGTC TTCTCTTCGA GTGGCCACCT 240
 GGTAGCCTAG AACAGCTAAG ACCACAGGGT TCAGCAGGTT CCCCAAAAGG CTGCCCAGNC 300
 TTACAGCAGA TGCTGAAGGA GAGCAGCTGA GGGAGGNGGN GCTGGCCACA TGTCAGTGN 360

GGGTCAGNTT CCAAAGTCCT TTNNTTANCA CTGTTGTGGA CAATNTNANN TNGGGTCAAN 420
TNAAGGGCAG GTNGGTTNAA GNGGNGCCNN GGN 453

SEQ ID NO:1509

SEQUENCE LENGTH:450

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01718

SEQUENCE DESCRIPTION:

GATCCTGGGG AAGGTGGGGA ACATGCTTGC AGTATCTNTC CCTGTNTGTN TGCTCACATA 60
AGCATTCGGT CCATCTGAGC TCATCGTGCT ACTGGTATGT GTATGTNCAG TTACACAGTT 120
TTNTGTATCA TAGATTCTAG TGTGTTTATA CAAGGNGACA TCTGTGGTTT CCCCACCCT 180
TCCAAAAGGC TATTCAAAG GAACCAAGCA ACGTATGAGA AATGANTGTA ACGTGTGGA 240
CATTGACTTC CCGCATAAGG CAGGGTGACC CCCTGAACTC CAGATGTNTG CACAGTATCT 300
NATGTGTTGT TTTCCGTTGT GACGAATGTG NATTGAACA TTTGGGGGAG CCCCAGAGG 360
GATTTNTNAG TGGGAAGCAT TACACTTTGC TAAATCANGT ATTTNNTTCC TGNTTAAACC 420
AACCTANTTA ANTNTTTANC CCTTGGCAAA 450

SEQ ID NO:1510

SEQUENCE LENGTH:449

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01719

SEQUENCE DESCRIPTION:

GATCCATGGA TGTAGTGGGG AGTGAAAAAT GGCACAATAT CAAGTGTGAG ANAGGNGATA 60
NACTTCGACT CTNCTGCCTT CAACTGAGAN CAGTTGACCG CAAGCTGAAA CTGGTGTGTG 120
GNAGTCACAG CTTTCATCAAG GTCATCAAGG CCAAGAAAAA CAAGGAAGGA CCAATGAATG 180
TTAATTGAAA TATGAAAGCT GAAATGCAAC AAACAACCTC CGCTTAAAC AATTAAGTTG 240
TTAATAACTG TGATTTTGTG AATTTTCAGTA ATTCATTAA ATGATGTTT AGTAGATATA 300
TTCTAGCATA TTANGAGCTT TTATACTGA GTTATAGATT AGTTTGCTTT CTGGAATAAA 360
ATTTTCTTCT TATACTCTTC CTTTTTTTGA GATATNACAT TTTGCTTTTA TGNCATTAC 420
GGGGGCAAAA ANTAAAAATAT CTTTTTTTN 449

SEQ ID NO:1511

SEQUENCE LENGTH:464

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01720

SEQUENCE DESCRIPTION:

GATCAGAATC ATGGTCTCCC GCAGTGAAGT GGACATGTTG AAAATNAGGT CTGAATTCAA 60
GAGAAAGTAC GGCAAGTCCC TGTACTATTA TATCCAGCAA GACACTAAGG GCGACTACCA 120
GAAAGCGCTG CTGTACCTGT GTGGTGGAGA TGAAGTGAAG CCGACACGGC CTGAGCGTCC 180
AGAAATGGTG CTCACCATGC TTCCAGCTAA CAGGTCTAGA AAACCAAGCTT GCGAATAACA 240
GTCCCGTGG CCATCCCTGT NAGGGTGACG TTAGCATTAC CCCCACCTC ATTTTAGTTG 300
CCTAAGCATT NCCTGGCCTT CCTGTCTAGT CTCTCCTGTA AGCCAAAGAA ATGANCATTN 360

CAAGGGAGTT TGGAAAGTNA GTCTATGANT GTGAAACAAC TTTTNNCCTC CTGTNGTNCT 420
GTGTTAATAA ANCAGGTGNA TTAACTGGN TTTNGTACTT TAAA 464

SEQ ID NO:1512
SEQUENCE LENGTH:445
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01721

SEQUENCE DESCRIPTION:

GATCTTGCCA TGGAAAGATAC TAGCCAGCC TAGCAGAAAA GTGCAATATG TATAGCATAC 60
TTTGACATTT TAAACATGAT AGTCCATAAC CATTTTGAAA TGCTGGGCAA ACTACATGAA 120
GTTATTATA ATTAATTCAC AGCTAATCAG GCATTTTGAA AGCTTAATTG GATTCAAAAA 180
CCATAATGTT GGAATTTGGT AAAATTTTAA TGTGATTTT TACTGTGAAA AGGTTTTTAT 240
AAGATATACA CACCCTAGTT TAATGTTGTG TCTTGGTGTG GATTACAGA TTTACTACAG 300
GTATTCTGAA CCAGGAACAC ANTCAGGTTT TCAGGCCAGT TTGAATACTG GCTGGCCTTA 360
AATTCTAATT ATNNGGAGTA GGGACATCAT ACCTAAATNT TTATGTCAGT GGGGNCTGTA 420
CTTGTCTGTG GGANCTTAGC AAATN 445

SEQ ID NO:1513
SEQUENCE LENGTH:435
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01722

SEQUENCE DESCRIPTION:

GATCAATCGG ATTGAGAAGA ACATCCTGAG CTCAGCGGAC TACGTGGAAC GTGGGCAGGA 60
GCACGTCAAG ACGGCCCTGG AGAACCAGAA GAAGGCGAGG AAGAAGAAAG TCTTGATTGC 120
CATCTGTGTG TCCATCACCG TCGTCCTCCT AGCAGTCATC ATTGGCGTCA CAGTGGTTGG 180
ATAATGTCGC ACATTGTTGG CACTAGGAGC ACCAGGAACC CAGGGCCTGG CCTTCTCTCC 240
CAGCAGCCTG GGGGCAGGGC AGAGCCTCCA GTCGGACCCC TTCCTCACAC TGGCCCCTAT 300
GCAGANGGTN AGACAGTTCT TCTGGGGTTG GNAGCTGCTC ATTCATGATG GCCTNCTCCT 360
TNAGGCCTCA ATGCCTGGGG GGANGGCTGC ACTGTCCTAT TTGGNCGGGA CANACGGTTT 420
TNTAAAAATT TAAA 435

SEQ ID NO:1514
SEQUENCE LENGTH:434
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01724

SEQUENCE DESCRIPTION:

GATCTAACCT AGACTAAAAT TGGGAACCTA TTTGCAATTT TTGACCCNGN CCACTAACTA 60
GTGATTCTNC TCCAAAATTG AGAAAGACAG CACCCATTGA AGCAGATATG TGTGTGAAAG 120
TATATTTTTC AATTCCAGAT TTTTAATTTT AAGGCTCCAG GAAAGAAAGG AGAGTAGAAC 180
ATTTTTCCTC ATTTTATCAA ATCCTCTCTT GCCCTCCCTC AATTCCTCTG TAACATTCCT 240
GAAGCTGTTT CCACTCCAG ATGGTTTTAT CAATAGCCTA GAGGTAAAGA ACTGTCTTTT 300
TCTCTGATTC TTTAATAAAT TATCTTTATA GGAATATGCA CAAGTTTTTT TTACACTCAG 360

TGTTAAAGT ATTTATTAAT NGGGAAGTCA ACTTAATGTT TTGAAATAAA NTATATGNCT 420
CTGGTTAATG CAAA 434

5 SEQ ID NO:1515
SEQUENCE LENGTH:423
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS01726

SEQUENCE DESCRIPTION:

GATCCAGTGA TTCANTCACT TAAATNAAGT CTTTGGGTCA GAAATNACCT TTTTGACACA 60
AGCCTACTGA ATGCTGTGTA TATATTATA TATAAATATA TCTATTGAG TGAACCTTG 120
15 TGAACCTCTT AATTAGAGTT TNCTGTATA GTGGCAGAGA TGTCTATTTC TGCATTCAAA 180
AGTGTAATGA TGTACTTATT CATGCTAAAC TTTTATAAA AGTTTAGTTG TAACTTAAAC 240
CCTTTTATAC AAAATAAATC ANGTGTGTTT ATTGAATGGT GATTGCCTGC TTTATTTTCA 300
AGGACCAGTG CTTTGATTTT GATTATGCTA TGTNATAACT GACCCNAAAT AAATNCAAGT 360
NCAAAATTTAT GTNGNCTGTA TAAGTTTGT AATAANCCAT GNCTGAGGNC AAAAAAGGNN 420
20 AAA 423

SEQ ID NO:1516
SEQUENCE LENGTH:419
SEQUENCE TYPE:nucleic acid
25 TOPOLOGY:linear
CLONE:HUMGS01727

SEQUENCE DESCRIPTION:

GATCTGTAAT CTCCACTGCT TGGATGTCTG CCCTCTACCC CAGAGGAATT TACAGAACT 60
30 TGCCCTGTGC CTGTGTCCCC CATGCTAGGG GCGGAGGGGT CTTTCCTTC TTCTTTCCTA 120
CCTACCCCTT TTCTCTTGGC CAGGGGCCCTC GTATCCTACC TTTCTTGTG CCCTGGGCTG 180
GCTGCACAGA GGATTGCCCC TTCTCTTTTC AGAGCTGGCC CTCGATGCCA AATTAGCATT 240
TAGTATTTTG CACAAAGTCT AAGGGACCAT GGCTGCCTGC CTTGGGGAGG AACCATAGCT 300
35 CCNTCTGGGC CGCTTCTGGC CTCTTGGAGC CATGGGCCAA AGGCAAGGGG ATGGGCAGAG 360
GTCTGTGTTT GGTCTGGCCC AGTCCNCAT CATTAACTC AGCCTGACTG CTGCCTAAA 419

SEQ ID NO:1517
SEQUENCE LENGTH:419
SEQUENCE TYPE:nucleic acid
40 TOPOLOGY:linear
CLONE:HUMGS01728

SEQUENCE DESCRIPTION:

GATCCTCAGT AGANCAGTCC AGAAGCCTGA NAGACAGTGG CCCCTTGATA ATCTGGGTCT 60
45 CACGGGNCCA GCTAGGGGTC CAGGTTTCAN TCAGTAAATA AGAGTGGTCC ACGTCCTAAA 120
GACACCTCTC CTNNACAAAG ACTTGTGATG CTCTGGGGNT TCTNTGGCCA AGCCCCACCC 180
TTTCCTGGTC ATGGTACCCG TACAGCGTTG ATGGCCACAG CTCGAAGGGG GGCTTTCGTG 240
TCCCCCTGTG CGGTCACTGT TTTCAGTACC ACCTCTCTCC CGTGCCCACT TGGCTATTTA 300
50 CTTATTTATT TATTGTGTGC CAGTNATGGT GGGTGGGGGC TGGGCCTTCC CCGCCACCTN 360
CANCCCTGTT GTGACCTGTC CTTCCGTACT TAATAAAGTG CGCGTGNGGA GTTGTTAAA 419

SEQ ID NO:1518

SEQUENCE LENGTH:418

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01729

SEQUENCE DESCRIPTION:

GATCTNAGCC CTCCGGTTCC TGGGCAGAGA GAAAGGCTAC AGGTTCAATT NCCTGACGAC 60
 AGCAGTCACA AACAGCGCTC GCNTTATGGA GGCCATNAGT GAGGTGAAAG CCTGATGTTT 120
 TTCCCGGCCA NTNTTGACAT CTTCCCTGAA CACATTCCTC AGTGAGATGC AGGCATCTGG 180
 CACCCAGCTG CTATAACCAA GTGTCCACCA ACTACCTGCT AAGAGCCGGG AGCATGGAAC 240
 GTGTTGGGAT TTAGAGAACA TTATCTGAGA AAAGAGTTCA CTTCTGCTC CCAGGATATT 300
 TCTCTTTTCT GTTTATGAAG TACAACCCAT GCTGCTAAGA TCGAGCAGG AAGAGGCATC 360
 CTTTGCTAAA TCCTGTTTGA ATGTCATTGT AAATAAGCC TCTGCTCTCA GATGTAAA 418

SEQ ID NO:1519

SEQUENCE LENGTH:404

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01730

SEQUENCE DESCRIPTION:

GATCCAATT ACAGAAATCA GAGTTAGCTA CAGCTAGGAC TCGTTTGGTT GGGGTTTTTT 60
 AGTTTGTCTT TCTAAAGTCA TGTGGACCTT AATTTAATTA CAAAAGTCTA CCCTGGTGGT 120
 CATAAATAG GCAGGCCTAT GAAGAAAGGC CTTTACTCT TCCATCTCGT CCCAGCCCCG 180
 AGTTGACCCA CGTTGCTGCT CCTCACACCA TGGTGATGCA GGTCTCGTAG TGTGGGCACA 240
 GGCTTGCTA CCTCATCTTT TTAGTGCTC TCTCCTCTC CACAGGATGG GGTCCACAG 300
 CTGCAGCAGC TGGCCCGGTA GTTGAGCATG TGTGGTTATC CTGTAGAGCT TTTCCCAAGA 360
 AGGGTGTTTG AACTTAGAGT CTTAATAAAA TCTTACCAAA TAAA 404

SEQ ID NO:1520

SEQUENCE LENGTH:402

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01731

SEQUENCE DESCRIPTION:

GATCTACAGA TACGTGATAT TNTGGTATAA CTAGAATCTT GATTTCITTC ATAAAGTTCT 60
 GCCATGTTCT ATTTCTTTCC TTAATGTTTT TTTCTTCCCT ACTGTTTAT CCTCCCTTTG 120
 CTTTGAAGG ATATTNCTGC ATATCGAGCT AAAGGAAAGC CTGATGCAGC AAAAAAGGGA 180
 GTTGTCAAGG CTGAAAAAAG CAAGAAAAAG AAGGAAGAGG AGGAAGATGA GGAAGATGAA 240
 GAGGATGAGG AGGAGGAGGA AGATGAAGAA GATGAAGATG AAGAAGAAGA TGATGATGAT 300
 GAATAAGTTG GTTCTAGCGC AGTTCTTTTT NNCTTGCTA TAAAGCATT AACCCCTG 360
 TACACAACCT ACTCCTTTTA NNGAAAAAAA TTGAAATNTA AA 402

SEQ ID NO:1521

SEQUENCE LENGTH:407

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01732

SEQUENCE DESCRIPTION:

GATCTCAGCT GAACAAATTA GATGTTTCAG TTGCTCTTGG GTCAACTGGC TTACAGATTT 60
 ACATGTGCAC ACACACACAA ATTTCTTATC ACATTTTCGC CTTCTTCACT TGACCTAACT 120
 GATTATGCGA AATACCCAAG ATTCATGCTA CTGTACCACA GATTTGTTTT CACAGCAATA 180
 AATCTTCAGT TCTTTGTTTA TGATTCCACT TAACAAAAGG CCTGCAGAAG TGATTTATTA 240
 TTTGGGTATT TGGAGATAAT ACATTTGATG GTTTTTTGGG AAACCTTTT CACTCCATAC 300
 TCAGATATGC TTCATTGTCA AATGCATATT TAGGNTAGGT TAATNGAATT GTAATGTTTA 360
 ACCTGCTGCT TTTTTTTAA ATAAAAATTT GACTGAAAAT GGTAAA 407

SEQ ID NO:1522

SEQUENCE LENGTH:397

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01733

SEQUENCE DESCRIPTION:

GATCTAGTAG CCACGCTAAA AAACAAGTAA AATTAATTTT AATATATTTA ACTCAATACA 60
 TTGGAGATAT TATTTAGAA CGATATTTT CATTCTTATG AAATAAGTC TGTCTGGTTT 120
 GCATATCTCA GTTGAGACAC TAAAGTTTTA CTGATAATAC TTAATCCATN NATTAGATTT 180
 CATAAAATCT AAATTGCAA AGTAAATTTA CATACCCATG TNGGTCTAAA TGTGCTTAAA 240
 AGTTTTCCAA TAACTGAAAT GAGTATCAGT TTTAAATTTA AAAATTTGTT ACTTGGTTAC 300
 TCCATATTTT AGGTATTAGT GGCTACCATA TTGGTCAGAG CAGATTCATA GGGATGATTT 360
 CCCAGGTTTG AAGTGTGTGT ATATTGCTGG TATTATN 397

SEQ ID NO:1523

SEQUENCE LENGTH:395

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01734

SEQUENCE DESCRIPTION:

GATCTGTACG AAATGTGAAA TTTTAGGGA CATCTCCATG CTGTCACTTG TNATTTGCCC 60
 TCTNATGTAT TTNGGTCATA TTGCCAACTG GAAAGTCAAA ATTCCTAAC AACTTTAAGT 120
 AAGTCCTTTN AAGACTNAGT GCTGTTTNA ATCCAGTTTA GAAAGTAACT TAATTTTAAT 180
 ACCGCTACTA AAAATNCGAA AATTTCTCCT TTAATCACAT TCAATATGGT TAAANGAACA 240
 AACTAATTG ACATTGCGTG GGCTTTTCCT CCCTTTGTTT AAANANGTCA TTTTGTGAG 300
 CAAGNGGTTG TATAGTATTA TCTACTNNCT TGAGGCTGTT AAATTTNCNA TTCCAGNGGT 360
 TTTGTAAATG TATCCCGGGG CCNTGNTGCA TTGGN 395

SEQ ID NO:1524

SEQUENCE LENGTH:391

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01735

SEQUENCE DESCRIPTION:

GATCTCAATG ACCTGGCGAA GACTGGAAAA TACAACCTCC ATCACCAGCA GAGTTGCTAG 60
 GCTGCTGCTG TATGGGTACA GAGAAGGGTT TGACAAAATT GACCTGACTG TGGAAGAACT 120
 TCCAGCAGTT TACACAGGAC TGTTTATAA ACTCTATCAT AAGGAACTGC CAGAGAATTA 180
 TAAAACTATG AAAGGAATTG ATTAAATTCA CATTATATG TTTAGAAACA TGTAGACTAA 240
 CGAATGACAT AAGAAATAGT GGACATTTTG GATTGATTAA ACATCTGACT GTGATTTTCT 300
 AATGTATATG ATTTCCATGA AGAAATTTTG TTTCTAAACA TGCACATTTT AAAAGCCTCT 360
 TTTCGAATAA AGCAAATGCG TGAANAANGAA A 391

SEQ ID NO:1525

SEQUENCE LENGTH:388

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01736

SEQUENCE DESCRIPTION:

GATCCGGCGC CACAAGACCA CCATCTTCAC GGACGCCAAG GAGTCCAGCA CGGTGTTCGA 60
 ACTGAAGCGC ATCGTCGAGG GCATCCTCAA GCGGCCTCCT GACGAGCAGC GGCTGTACAA 120
 GGATGACCAA CTCTTGGATG ATGGCAAGAC ACTGGGCGAG TNTGGCTTCA CCAGTCAAAC 180
 AGCAGCGGCC CAGGCCCAGC CACAGTGGGG CTGGCCTTCC GGGCAGATGA CACCTTTGAG 240
 GCCCTGTGCA TCGAGCCGTT TTCCAGCCCG CCAGAGCTGC CCGATGTGAT GAAGCNCCAG 300
 GACTCGGGAA GCAGTGCCAA TGAACAAGCC GTGCAGTGAG ACCCCCAAGA GGCCCATTTT 360
 CCCCATAAAA AGAGATTGAG GAGTCAAA 388

SEQ ID NO:1526

SEQUENCE LENGTH:388

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01737

SEQUENCE DESCRIPTION:

GATCTTATTT CTCTACTCA ATTGTATATT TATACCCATT AATCAACTTC TGTCTTGCT 60
 CTCTCCGTGC TACCCTTCTG GCCTTTGGTA ATCGCCAATC AATCTACTCT CTATCTTCAT 120
 GAGACCAGCG TATTTAGCT CCCACATATG AATGAAAACA TATAATATTT GTCTTTCTGT 180
 GCTTGACTTA TTTTACTTAA CATAATGACC TCCAATTCCA TCCATCTTGT GGCAGTGACA 240
 GTATTTCATT CATTTTGTG TGAATTATAT TTCGTTGTGA ATATACATTA CATTTTCTTT 300
 ATCCATTCAT CACTGATGTG CACTTAGGTT GATTCCATAT TTGGGCTATT GTGAATAGTG 360
 TGTTAATAAA CATGAGAGTG CAGTTAAA 388

SEQ ID NO:1527

SEQUENCE LENGTH:385

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01738

SEQUENCE DESCRIPTION:

GATCTTCCTG GTCAGCGCTC TCTTAGCAT ACTCTTCCTC TATTTGGCTC ACAAACAGGC 60
 ACCAGAGAAG CAAATGGCAC CTTGAACTTA AGCCTACTAC AGACTGTTAG AGGTGATACT 120

ATGACCATGA GTAGCATCAG CCAGAACATG AGAGGGAGAA CTAAGTCAAG ACAATACTCA 180
GCAGAGAGCA TCCCGTGTGG ATATGAGGCT GGTGTAGAGG CGGAGAGGAG CCAAGAAACT 240
AAAGGTGAAA AATACACTGG AACTCTGGGG CAAGAGATGT CTATGGTAGC TGAGCCAAAC 300
ACGTAGGATT TCCGTTTTAA GGTTCACATG GAAAAGGTTA TAGCTTTGCC TTGAGATTGG 360
CCTCATTAAT ATCAGNGACT GTAAA 385

SEQ ID NO:1528

SEQUENCE LENGTH:377

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01739

SEQUENCE DESCRIPTION:

GATCCGTAAT CAGAACGTCC AGGAGAGACG CATGGCCCGA AGTCAAAGTG CTGGAATTTT 60
CCAAAACAGC CTGTTCTCTC CTCTCTCTCT CCCAGAGCAC CCCCTGCCAT CAGGGGGGTT 120
GAAATCCCTC TCCCCCAGGA GCCCTGTGTC TTTGCTTGGT GGTAGGGCAG GAGAGCAAAC 180
AAACAGTCAT GGTCTAAAC CCACATAGCA CTTTGCTCTT AGTTACATGT AAAATTTTAG 240
ATTTCTAAAA CAGGTGGGCA ATCATTTTGA ATACTGTTCT GTGACCCTGA CTGCTAGTTC 300
TGAGGACACT GGTGGCTGTG CTATNGTGTG GCCATGCTCC NTTGCCCCG TNCCTGTTGG 360
CTGCTTCTGT TTAGGTN 377

SEQ ID NO:1529

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01740

SEQUENCE DESCRIPTION:

GATCCAAGGC CTGTGGTAAA CGGGAGANCT TGTNTTTTTC AAGTGGAAAA AAACCCAAGA 60
GTTTGTNCAG ACATCCTGTC TTCCAGAGA AGGTGGACAC TCTTGGNCTC ATTGTAAAGT 120
GCCTGCTGNA TCAATAAAGC TCTTGGCTTA TTAGTCTATA AAACAAA 167

SEQ ID NO:1530

SEQUENCE LENGTH:372

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01741

SEQUENCE DESCRIPTION:

GATCCACACG TTCCGGGACT ACCTGCACTA CCACATCAAG TGCTCTAAGG CCTATATTCA 60
CACACGTATG CGGGCGAAAA CGTCTGANTT CCTCAAGGTG CTGAACCGCG CACGACCAGA 120
TGCCGAGAAA AAAGAAATGA AAACAATCAC GGGGAAGACG TTTTCATCCC GCTAATCTTG 180
GGAATAAGAG GAGGAAGCGG CTGGCAACTG AAGGCTGGAA CACTTGCTAC TGGATAATCG 240
TAGCTTTTAA TGTTCGCGCT CTCAGGTTT TTAAGGGATT CTCGGTTTGT GTTCCATTTT 300
GTACACGTTT GAAAAATAAT CTGCAGAAAC GAGCTGTGCT TGCAAAGACT TTCATAGTTC 360
CCAAGANTTA AA 372

SEQ ID NO:1531

SEQUENCE LENGTH:372

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01742

SEQUENCE DESCRIPTION:

GATCCACTGT TGGGGCCTCG ACGAGTTCCT GTCCTGGGAA AGGAGTACAC CGAGAAGACC 60
 CCCATTCTGT AGCATGCTGT TTTCATGTG GACCTCATGA GCAAGAAAAT TCATCTGACT 120
 GAGAATGGGA TAAGGGTGGA TATTGGCGAT ACAATAATCT ATCTGGTTCA TTAAGTCTAT 180
 GCACATTGGA GATTTATCCT GGTTCCTTAG GAATACTACT ACTCTGATTG TGTCTACTGA 240
 TTGGGTATCA GAACCTTAGG CTGGACCTAA ATAGATTGAT TTCATTCTA ACCATCCAAT 300
 TCTGCATGTA TTCATAATTC TATCAAGTCA TCTTTGATTG CTGGACCTAA TAAATTTTTT 360
 TTCCCTTTCA AA 372

SEQ ID NO:1532

SEQUENCE LENGTH:368

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01745

SEQUENCE DESCRIPTION:

GATCCCAATC ACAATTATCA CCGGGTATTT AGGTGCTGGG AAGACAACAC TTCTGAACTA 60
 TATTTTGACA GAGCAACATA GTAAAAGAGT AGCGGTCATT TTAATGAAT CTGGGGAAGG 120
 AAGTCCGCTG GAGAAATCCT TAGCTGTCAG CCAAGGTGGA GAGCTCTATG AAGAGTGGCT 180
 GGAACCTAGA AACGGTTGCC TCTNCTGTT AGTGAAGTGA GGAATGTGTT TACTGTGTAC 240
 ATGGTTTACT AGAAATGTTT ATTGATTATA TTTCCAGCTT TAATTTTCTT GAGTAATTTA 300
 ACTGAATTTA CACAGTTTGC TTCATTGTAT TTTCAAACAA ATAGAAAATA AACTTATTAG 360
 GAAGCAAA 368

SEQ ID NO:1533

SEQUENCE LENGTH:364

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01746

SEQUENCE DESCRIPTION:

GATCGTCCCC GTATGATGAT TGTNAGAAGA CAGGACTAAG TAGCAGAGAA TAGCTAAGAG 60
 ATAAATTGGG CTGGGGAAAC TTGTCAGAAA GCACTGAACA ATTAAGAAAT TTTCCAAGAA 120
 AATGTGCAGT ATTCTCTGCT ACTTCTGAAT CTGTTTTGTC TTCCTAATCT ATCACAATTG 180
 CCACCATCG GGTTTTGGGT GTGTGTTTTT ATAGCGTGGT TACTTTCTAT AATGCTGTAC 240
 CCAGATTCTA AGAACCTGGA GAAGGATTAG CAGTTCTTAG TAAGTTTACT GTGTATAGGA 300
 ACGGTTTGTA TTTCATTACA GCTATTATC TTTTCTACAT TAAAAATATT TTTCTCTAAA 360
 GAAA 364

SEQ ID NO:1534

SEQUENCE LENGTH:362

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01747

SEQUENCE DESCRIPTION:

5 GATCTGTGCC ATAAATTTT AGTGAATAA GACTTCTTCA ATACATCTTC CAATAAGGGG 60
 TGCTTCTTTG TGACAGTATT TTTATTTCTG ACATTCATTT TATTGGGTA CATAGTGTGG 120
 TTGTTGATAC CTTGCAATAG TATTGCTTCT GAAAGTAATA AAAAATTTTA GGAGAATTG 180
 AGAAGTTTAC AGAATTACTT ATTCATTGTT TTCTTAGTAA GTCAGTTTAA TGTTTATTTT 240
 TCTCATTATT TCATCACTGC AATAAAGAAT AAGGGTGTTC GAGCTCACCT CCATGCAAAG 300
 10 ACTTCAGTTT TAAACATTA TTGCGCTAAA ATTAGCATTG TGATGCTTTC TGAAAGAAAT 360
 AN 362

SEQ ID NO:1535

SEQUENCE LENGTH:361

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01748

SEQUENCE DESCRIPTION:

20 GATCCACCTC TCCTGTGCTA AGATTAAAGAN GACCAACGTC CCCGANTTCT TTNATTGCCA 60
 GAAATGCAAG GAACTGAGGC CAGAGGCCNN GCGGTTAGGG GGGCCTCCCA AATCTGGAGA 120
 GCCTGATGG CACCAACTTT AGCCTGGAAC TTCCAAATNA CAACATGATT TGGGAACCTGA 180
 GCCTCAGGGT CCTCAGCCTA TCCCCTGGAG CTGGGATACT GTCTGCACTT CAAGGCAGGA 240
 ATTCTCAAGG GAGACTTGTT TGAATAATNAG TGTCTCACTT TCCCACCCTA TCCTTCCTCC 300
 25 CCACTCTGTG GACTTGAAAT TGAATCCATT ACGGTTGGGG ATGGGAGGCT GTCTGTGTCC 360
 N 361

SEQ ID NO:1536

SEQUENCE LENGTH:360

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01749

SEQUENCE DESCRIPTION:

35 GATCGATTCT CTCTATGAAG GAATCGACTT CTATACNTCC ATTACCNGTG CCCGATTNNA 60
 AGAACTGAAT GCTGACCTGT TCCGTGGCAC CCTGGACCCA GTAGAGAAAG CCCTTCGAGA 120
 TGCCAAACTA GACAAGTCAC AGATTAAATGA TATTNTCCTG GTTGGTGGTT CTAATCGTAT 180
 CCCCAAGATT CAGANGCTTC TCCANGACTT CTTCAATGGA AAAGAACTGA ATANGAGCAT 240
 40 CAACCCTGAT GAAGCTGTTG CTTATGGTGC AGCTGTCCAG GCAGCCATCT TNNNTGGAGA 300
 CAAGTNTNNG AATGTTCAAG ATTNCTGGC TCTTAGGNTG TCACACTCTT TTTCCCTTAN 360

SEQ ID NO:1537

SEQUENCE LENGTH:358

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01750

SEQUENCE DESCRIPTION:

50 GATCCCACTG AATCCTGGGT CCAGGAGTAC GTGTATGACC TGGAACGTAN CTGAGCTGCT 60
 CAGAGACAGG AAGTCTTCAG GGGAGGTCAC CTGAGCCCGG ATGCTTCTCC ATGAGACACA 120

55

TCTCCTCCAT ACTCAGGACT CCTCTCCGCA GTTCCTGTCC CTTCCTTAA TTTAATCTTT 180
 TTTATGTGCC GTGTTATTGT ATTAGGTGTC ATTTCCATTA TTTATATTAG TTTAGCCAAA 240
 GGATAAGTGT CCCCTATGGG GATGGTCCAC TGTCACGTGT TCTCTGCTGT TGCAAAATACA 300
 TGGATAACAC ATTTGATTCT GTGTGTTTTT ATAATAAAAC TTAAAAATAA AATGCAAA 358

SEQ ID NO:1538

SEQUENCE LENGTH:354

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01751

SEQUENCE DESCRIPTION:

GATCCCTCCT CTAGGGGCCT GGGGACTTTN ACTGATGCTC TTCCTGATTC TAGAGCAAAG 60
 GTGTGGGAAG GGGAAATGGA GGAATGCCCT CCTGTCTGTN TCGTTCTCTG TGCCACAGCT 120
 ACAGATGCAG AAGGTTTCTC TGGATAGCAC ACCTCTGANT GTAAATCATG ATAAAAATGGA 180
 TATTTGAAA CTTACTCCTA AGCTGTGATT TAGGGTGTAT TTCTACTTCT GGAAGTGCCTC 240
 AATATCAAGG GCTGAGACTT TTGAATTTTG AATATTCGTT GGGTTTCATG TTAAGANGCC 300
 TGTGGTCTAG GAGTGCTATT CAGTGTTCCT TTCCTGATA AACACTTTGA ATAN 354

SEQ ID NO:1539

SEQUENCE LENGTH:352

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01752

SEQUENCE DESCRIPTION:

GATCTCAGTA TGGACAGTGT AACAAACAAA CCAAAATGGC TGGACAGACT TCTTGTGTTT 60
 TGTAATATA AACTAGGACA GTTCTGTAGG TTTGTTCACT GTGCTAGTGG AGTATTTCT 120
 TAATGTAAAA CTTCACTTAA CAGAGAGATT CTTTGTITAG CAAGCTTGGN GTGATGATAN 180
 AGNGGTAAGA AATAATATAA ATGTTGAAGA AAGCATCACA ACAGAACTAT AGGAGTCTAA 240
 ATTTAATAAA TCTTTAAAAA AAACCACTGT CTAGAAATA TACCATGTTT TATTATTAA 300
 AATCATTGTC TTAATTTTTT GTTCAAAAAA TAAAAATTTG AATACAATCA AA 352

SEQ ID NO:1540

SEQUENCE LENGTH:351

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01753

SEQUENCE DESCRIPTION:

GATCAGACAA GCCCAAACTG AGAGACACTC TACAAAATAA CTGGCCAGTA CGTTTTNCAA 60
 GTNCCAAGGC CGTGAACAAT AAGGAAAGAC TGAGGAACAG TCATGGACTG GAAGAGAGTA 120
 AAGAAATATG ATAACAACT GCATTGTGAG ATACCGATTT AGATGTTGGA TTAGAAAAAG 180
 GACCAGAAAT AAGATTTTCA CAATGTCAAT TATTTGGTTT TGATAATTGT ACTGTGGTTA 240
 TGTAAGATGT TAACATTAGT AAGAGCTGGG TGAAGGGTAC ATGGAACTA TTATTTTTGC 300
 CACCCTTTGA AAGTCTAACT TTTTCAAAA TAAAAAGTTT TAAAAATAA A 351

SEQ ID NO:1541

SEQUENCE LENGTH:357

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01754

SEQUENCE DESCRIPTION:

GATCCCAGAT GCAGTGACTG GTTACTACCT GAACCGTGCT GGCTTTGAGG CCTCAGACCC 60
ACGCATAATT GGGCTCATCT CCTTAGCTGC CCAGAAATTC ATCTCAGATA TTGCCAATGA 120
TGCCCTACAG CACTGCAAAA TGAAGGGCAC GGCCTCCGGC AGCTCCCGGA GCAAGAGCAA 180
GGACCGCAAG TACACTCTAA CCATGGAGGA CTTGACCCCT GCCCTCAGCG AGTATGGCAT 240
CAATGTGAAG AAGCCGCACT ACTTNACCTG AGCCACCCAA CCTAAATGGT ACTTATCTGT 300
NCCCATGTNC NTACACCAGC CTGTTTNNAT AATAAACTTT ATTGGTGGTA GGGNAAA 357

SEQ ID NO:1542

SEQUENCE LENGTH:412

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01755

SEQUENCE DESCRIPTION:

GATCAGGGCA GTAGGCATAA TTCAGCAACA AACAATCTTC CTTTGGGAGA AACCTNTTCA 60
TTCCAATCTT CTAATTACAG TGGTTCCTAT CTCAGGGATA CTGGACTTIN TGACGCAGAT 120
GAACAATTAA GGGGAAAAGC TTCCCTTTTC CCTCTGTGGC AGTTACGATT TTNACTTCAG 180
TCCTGAGAAA AACTTCAGGT TTTGAAAATC AGATGATGTC TTCTCCTTTT CCAANCACCA 240
CACGTTGAAA GCNTTTATAA ATCCAAGTCT GAAACTCTGC GCTCTAGTAC TGCTGTTAAG 300
NTACACAAC TGTTCCTNN GTTCATATAA TCTNGGGGTA CNCACNCACA CACNCNTGTA 360
TGGGGGGGGG GGNNTGGCGN TTNCCACCGC GCGTTCNTT TTTGNNGGGT CN 412

SEQ ID NO:1543

SEQUENCE LENGTH:343

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01756

SEQUENCE DESCRIPTION:

GATCCCAAAA TGCTGCGGGG CAATGACAGC TCAGTCCCA GAAATAAAAA TCCATTCCAA 60
GAGGCCATTG TTTTGTGGT GGGAGGAGGC AACTACATTG AATATCAGAA TCTTGTGAC 120
TACATAAAGG GGAAACAAGG CAAACACATT TTATATGGCT GCAGTGAGCT TTTAATGCT 180
ACACAGTTCA TAAACAGTT GTCACAATT GGACAAAAGT AACACAGAAG AACCTTACTA 240
TGATAATCTA CTTGGAATGT GGATAAATGT AAAANGNAGA AAAGTTAGAA NGNGCANTAT 300
GTTTCCTTCT CTGTAACAGT GTCCTAACAG TGAATAATCA GGN 343

SEQ ID NO:1544

SEQUENCE LENGTH:340

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01758

SEQUENCE DESCRIPTION:

GATCGANCTT NCTATGGACT CAAGCAGGTG NNGAAGGCCA ATNAAGCCAT GGCAATTGAC 60
 ACATTGCTCA TCAGCGATGA GCTCTTCAGG CATCAGGATG TAGCCACACG GAGCCGGTAT 120
 GTNAGGCTGG TGGACAGTGT GAAAGAGAAT NCAGGCACCG TTAGGATATN CTCTAGTCTT 180
 CACGTTTCTG GGGAAACAGT CAGCCAGTTG ACTGGGGTAG CTGCCATTCT CCGCTTCCCT 240
 GTTCCCGAAC TTTCTGACCA AGAGGGTGAT TCCAGTTCTG AAGAGGATTA NTGATTGAAA 300
 CTTAAAAATT GNGACAATCT TTGTGTTTTC CTAAACTGTN 340

SEQ ID NO:1545
 SEQUENCE LENGTH:339
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01759

SEQUENCE DESCRIPTION:
 GATCTGCTTT CATTAAGTGG AATTCTGTAG GAGATACTGG TGACCTAAGC TAAGTTGCAC 60
 TCAGCATACT CAGTGTCAAG CTAATGAGGT TCTATTATAA AGGTTCTACT TTTAATCTGA 120
 GGGAAAACAT GTTCAGGGCT TCTAGAACAC TAAAAAATTN GGNTTAAACC AGTGTNCAGT 180
 CTGGTGCCAA ACTTCGAATG GAATACAAAT NNACATAATC TGANCTTTGT NCACAGGTTA 240
 TCCTAATAGA GTAATTCTCC ACTTGCTCT ATTGAACTGT CTTAAGGGAT TTGTTTAAAC 300
 AGCTAAGTTA CTTGATTAAA ATAATGATAA AATTGTAAA 339

SEQ ID NO:1546
 SEQUENCE LENGTH:362
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01760

SEQUENCE DESCRIPTION:
 GATCTGGTAG AAGGTACCAG CTTCTTTTCC AGCTGGAGAG GCCCAACAC TGGATGGTTC 60
 TGTAGGGAGC CTAGGGAGCC TGGTCATCAA CTTGCAATAC CTCACAGAGC CAGTTCACAT 120
 CCCACTCTGA GCTCCCACGA GAAACACTGC TTCTCCAGGC CCGGGTTGT TGGGGAGAGA 180
 GGCAGAGGCA GCTGGAGCGC CGTCTCTCC TGCTGGGACA CCGCTTGGGC TTGGTATTG 240
 ACTGAGTGGC TGACAGTTAT CTTCCAACCC CAACTGGCTT GGGGGCAGGA CAAGGGCTTA 300
 GGCTTGATGG TGGNCAGGCT TGNCTGCTCC CCACCTGNGA TGCCCTGCT CTGGGACCTC 360
 TN 362

SEQ ID NO:1547
 SEQUENCE LENGTH:335
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01761

SEQUENCE DESCRIPTION:
 GATCCTTTCA GAAAAGAAAC ACTGGGTCCC ATAGCTAAAT TCTCAACCGC CANGCACCTT 60
 CAGAAGAATC CAGCCTAATA CTGGAATTTG TGCTATTATC TTCCTCTCCA GCCCCCAAC 120
 TCCATCCCTC ACCACAGTTG TCTAGGAAAT GACATGAATT CAATATCTAA TGTCACCAA 180
 TGGGGAGAGC CACAACCTCA GGAGAGGTTT CTGAGCTGAG TCCCTTAATT TCTGGATGAA 240
 GAAGACCAAC AAGTTTTGTC CAATGTATTT GTTCTCAGA CCTTGCCTAG GCACTAAAAA 300

TAAAATACTA GGTCAATGGA GGCTAATGTG GGAAA

335

SEQ ID NO:1548

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01763

SEQUENCE DESCRIPTION:

5 GATCATTAAAG GAAGGCGATG TAGATGTTTC AGATTCTGAT GATGAAGATG ATAATCTTCC 60
 TGCAAAATNTT GACACATATC ACAGAGCCTT GCAAATAATA GCAAGATATG TACCATCATG 120
 AGTATACTGN TCCTTATTTT GAATGTTTAA TTCTCAAGAA AATTGTAATC AATTAGTAAA 180
 AATTATAAAA TGTTAATAGT ATTAAGCTT GAGTCTTACA TTGCATTTT TTTTNGNA 240
 15 NCCACTTGGG GAACCATTC ATNCTCCAAA ANGGGGCATT CCCATTCCT NTTNATCCCC 300
 TNNAAATGGT TTNCAAAGTN NGTNTGCNGN 330

SEQ ID NO:1549

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01764

SEQUENCE DESCRIPTION:

25 GATCATGGTG GATGAGGAAG CCTCAACGTA GATTCCTGAA CTCAAGGTAC CAGCAAGANT 60
 GCNTTCTCCC AGTGTGCTCT CCCCAACATC CTAGGCACAG CTTTCATAAC CCAGTTTCTT 120
 AGGTGTAAGA AACTGTTTTN ATCTCATTTA TTAAGTCTCA GAACTTAACA GAAAAGGAAG 180
 CCTTTTAAAT ATTCTTTTTA ATNTTATTTT AGATTAACAG TTTTGNACTT TACATTTTTT 240
 TATACAACCA NCCAGTTTCT TTNCTAGCCA ATCATCTCTG ANGAGTTGCT GTTTCTTACT 300
 30 GACAATAAAA NNTGTNCTCT TGGTTCGAAA 330

SEQ ID NO:1550

SEQUENCE LENGTH:329

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01765

SEQUENCE DESCRIPTION:

40 GATCAACATC TTTCTTGCC TCTGTCCCT TCTCTCATCT CTTAGCTCCC CTCCAACCTG 60
 GGGGGCAGTG GTGTGGAGAA GCCACAGGCC TGAGATTTC TCTGCTCTCC TTCCTGGAGC 120
 CCAGAGGAGG GCAGCAGAAG GGGGTGGTGT CTCCAACCCC CCAGCACTGA GGAAGAACGG 180
 GGCCTTCTC ATTTACCCC TCCCTTCTC CCCTGCCCC AGGACTGGGC CACTTNTGGG 240
 TGGGGCAGTG GGTCCAGAT TGGCTCACAC TGAGAATGTA AGAACTACAA ACAAATTTT 300
 45 TATTAAATTA AAATTNTGT GTCTCCAAA 329

SEQ ID NO:1551

SEQUENCE LENGTH:334

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01766

SEQUENCE DESCRIPTION:

5 GATCCCAACT GTCCTCTNCC CTCGCCGGTG ACTCCTGCAC CTGCCCGGC TCCTGCAAAT 60
 GCAAAGAGTG CAAATNCACC TCCTGCAAGA AAAGCTGCTG CTCCTGCTGC CCTGTGGGCT 120
 GTGCCAAGTG TGCCAGGGC TGCATCTGCA AAGGGCGCTC GGACAAGTGC AGCTGCTGCG 180
 CCTGATGCTG GGACAGCCCC GCTCCAGAT GTAAAGAACG CGACTTCCAC AAACCTGGAT 240
 TTTTATGTA CAACNTGAC CGTGACCGTT TGCTATATTC CTTTTCTAT GAAATAATGT 300
 10 GAATGNTAAT AAAACAGCTT TNACTTGAAA CAAA 334

SEQ ID NO:1552

SEQUENCE LENGTH:328

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS01767

SEQUENCE DESCRIPTION:

20 GATCTGTTTG GACTATGTTT TCTTTCTTC TCCCACTTGC TCAGCAGCTT GGGCTTCCAT 60
 TCTAGTTCTT TTACCAAGAT TTTGTGTGA CCATGTTGAC TTCATTTGGA TTGCCCTCTT 120
 TCAATTCCT TGTGAAAACA CCCTAACTT TCTCTTACC CTTAGCTGAA ATGTTTACAT 180
 AGCTTCTGGT GATATCTTN CATGATTTA TATCTCTAA AATGGTGATG GATGTGACAC 240
 CTCATAAAG TGAGCTTTGA ACTGTAGATA ACTCTTAAAG AAAATGTCAT TTTAGACAAT 300
 25 TAAATATTT GTGCTCAACT GCTTGAAA 328

SEQ ID NO:1553

SEQUENCE LENGTH:327

SEQUENCE TYPE:nucleic acid

30 TOPOLOGY:linear

CLONE:HUMGS01768

SEQUENCE DESCRIPTION:

35 GATCGAAATG TTAACACCGG GAGCTCTNCA GGACACTCAC CCAGCGACGC TCGTGGGGGA 60
 AACATACTAA ACGGACAGAC TCCAAGANCT GCCACCGCTG GGCCTGCACT GCGGCCCCC 120
 ACGTGAACCT GGTGTAAACG GGCCNGGAA GAAAAGCAGA GAGAGAATTG CAGAGAATCA 180
 GACTCCTTTT CCAGGGCCTC AGTCCCTCC AGTGGTGGCC GCCCTGTA CTCTGACGAT 240
 TCCACTGTAA CTACCAATCT TCTACTTGGT TAAGACAGTT TTGTATCATT TTGCTAAAAA 300
 40 TTATTGGCTT AAATCTGTGT AAAGAAA 327

SEQ ID NO:1554

SEQUENCE LENGTH:326

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS01769

SEQUENCE DESCRIPTION:

50 GATCAGCAGA CCACGTATTT AAAATTCTGA ATCTTCTGGG ACAGGGTTGT AACTCAGCCT 60
 TCCAAAGGGA AGAGTGCAGG GGGACGGGC CATGATATGG GGAATGGTG TAACTAATG 120
 TATTTNTTA TTGGCTGTTA TTCTGTATA CACTCATATC TTTGCCAAG TTCAATTTA 180
 TATTTAGGCA ACTGATGGTC CTTTGCATT TAGGATTTN GTTGTGTGTA CCTTATACCT 240

55

CATGATATAA GGAATGGGCT CATGTGTCTT CCGTCTTTTG GAAGGAGGTT GACATATTTT 300
 AAATAAATGC TTTTAAATAC AGTAAA 326

5 SEQ ID NO:1555
 SEQUENCE LENGTH:387
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 10 CLONE:HUMGS01770
 SEQUENCE DESCRIPTION:
 GATCAAAAAG AACAGAACCC TCTCCAGCCT GCTGACCCGA ACCCAACCAC ACAATGGTTT 60
 GTCTCAATCT GACCCAGCGG CTGGACCCCTC CGTAAATTGT TGACGCTCTT CCCCCTTCCC 120
 GAGGTCCCGC AGGAGCCTAG CGCCTGGCTG TGTGTGCGGC CGCTCCTCCA GGCCTGGCCG 180
 15 TGCCCGCTCA GGACCTGCTC CACTGTTTAA CACTAAACCA AGGTCATGAG CATTCTGTGCT 240
 AAGATAACAG ACTCCAGCTC CTGGTCCACC CGGCATGTCA GTCAGCACTC TGGCCTTCAT 300
 CACGAGAGCT CCGCAGCCGT GGCTAGGATT CCACCTCCTG TGTATGACC TCAGGAAATA 360
 AACGTCCTTG ACTTTATAAA AGCCAAA 387

20 SEQ ID NO:1556
 SEQUENCE LENGTH:325
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS01771
 SEQUENCE DESCRIPTION:
 GATCACAGAT GGATNTTGTT ATAAGCATCA ATGTGACACT TGCAGGNCAC TACAACGTGG 60
 NACATTGTTT GTTCTTCCA TATTTGGAAG ATAAATTAT GTGTAGACTT TTTTGTAAGA 120
 TACGGTTAAT AACTAAAATT TATTGAAATG GTCTTGCAAT GACTCGTATT CAGATGCTTA 180
 30 AAGAAAGCAT TGCTGCTACA AATATTTCTA TTTTAAGAAA GGGTTTTTAT GGACCAATGC 240
 CCCAGTTGTC AGTCAGAGCC GTTGGTGTTC TTCATTGTTT AAAATGTCAC CTGTAAATG 300
 GGCATTATTT ATGTTTTTTT TTTTN 325

35 SEQ ID NO:1557
 SEQUENCE LENGTH:322
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS01772
 SEQUENCE DESCRIPTION:
 GATCTGTAAT TCATAGTCAC ATCAAGGTCA TCAAGACCAG GAAAAACAAG AAAGACATAC 60
 TCAATCCTGA TTCAAGTATG GAAACTTCAC CAGACTTTTC CTTCTAAAAT CTGGATGTCA 120
 TTGACGATAA TGTTTATGGN GATAAGGTCT AAGTGCCTAA NAAAATGTAC ATATACCTGG 180
 45 TTGAAATACA AACTATACA TACACACCAC CATATATNCT AGCTGTAAAT CCTATGGAAT 240
 GGGGTATTGG GAGTNCCTTT TTAATTTNCC ATAGTTTTTT TTAATAAAAT GGCATATTTN 300
 GCATCTACAA CTTCTATAAT TN 322

50 SEQ ID NO:1558
 SEQUENCE LENGTH:319

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01773

SEQUENCE DESCRIPTION:

GATCTTTCTT TAATAGTGAA CCCCTGGGCC ACTGAAGAGT AACATGGCTC CACTGGACAC 60
 AAAAGAGGGA TGAATCAAC AGGCAGGGGG CCTTTTATAA GCCTTAGGAA AAGAAAAATGA 120
 AACTATTTCA TCTTTGGACT TTTCAATACT ATTGGAGTGA TTTTTTTTTT TCTAAACAGG 180
 GAAAATAATG TTACAAAAGC ATCTTTTTTG TNATTTGTTT GCATCCCTCC CCCACACCCT 240
 GGTGTTTTAA ANTGANGAAA AAAANCCATC ACCTTTTGTA CAAAANCTCT TAATGNTTAA 300
 CAAACAAACA AANCAGAAA 319

SEQ ID NO:1559

SEQUENCE LENGTH:316

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01774

SEQUENCE DESCRIPTION:

GATCTGGCTG CGCTATGACT CCGGGAGCGN CACCCACAAC ATGTACCGGG AATACCGGGA 60
 CCTGACCACC GCAGCGCTGT CACCCAGTGC TACCGAGACA TGGGTGCCCC GCACGCGCCC 120
 GAGCCCACTC CATTANATC TNACAGCAGT GTTCTTGCAA TATGAGGAGA CAGTTACAGC 180
 CACATTATGG CTCTCATTGA ACAGTACGCA GCACCCCTGC CCCCAGCCGT NTTTTTGGGG 240
 CTTGCGCGAA AATCTACAAG CGGGAANGTG ACCTNGGATT CAAGGGCGGG GAGAGANGCT 300
 TNAATAAATA ATCGTN 316

SEQ ID NO:1560

SEQUENCE LENGTH:390

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01775

SEQUENCE DESCRIPTION:

GATCTAGAGG GTCGGACCCA CATATTTAAG ATTCACGNTC GTTCAATGAG TGTGAAAGA 60
 GATATCAGAT TTGAAGTGT AGCACGACTG TGNCCAAATA GCACTGGTGC TGAGATTAGA 120
 AGCGTCTGCA CAGAGGCTGG TATGTTTGCC ATCAGAGCAC GGCAGAAAAT TGCTACCGAG 180
 AAGGATTTC TGAAGCTGT AAATAAGGTC ATTAAGTCTT ATGCCAAATT CAGTGCTACT 240
 CCTCGTTACA TGACATACAA CTGAACCCCTG ANGGCTTTCA AGTGAAAAC TTAATTGGA 300
 ATCCTAACCN TATATAGACT TGTAAATAAC CAATTCATAA ACAAATAAAT GGCTTCAAAA 360
 TTGAAAAAAA NNNGANNNN NNNNAGNNNN 390

SEQ ID NO:1561

SEQUENCE LENGTH:311

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01776

SEQUENCE DESCRIPTION:

GATCTGCTTA GAGTGGATT TCACTCAAGT CCTTAGTAAG TGGATTTTGG GGAAAAAAGC 60

ACCTGGGCTT CTGGTCTTT TTGATAATAT ATAAAATTAT TCATTATGAG GTTGCAGTTG 120
 TTTGCAAAGG AGAGGCACTC AAATTTGAAA GGTATTTTA ATGTGATAAT TTGGAAGACT 180
 TACTCAGATG TTGGTCATTG ACCACTCTGT GCATATATTT CTGCAGAGCT CTGTGAAGGC 240
 AATGAGTGTC ACTTCCCTCT GCTCTAATAA AGCAATAAAT AATAGCTAAA GGGCTGACTT 300
 TCACTTCGAA A 311

SEQ ID NO:1562
 SEQUENCE LENGTH:310
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01777

SEQUENCE DESCRIPTION:

GATCTTTCTA CAACATTAT CCTGGTTGTT AAGCCCTCCT TACAACATTC TTCTCTCTTT 60
 GTTTTATAG CTCCATCTCT CCTGCTTCTT TAACTTGATA ATGCATACTT GATTTTCCTA 120
 TTTGTNATTT CATAAACCAA TTAATACACA GATAAAATGA CTGTATATCA AACCATGTTT 180
 GTATAGAAAA ANTGGATTN GGATGCCTCT CATATGTAAT TAGTTCTATT AAACATATTA 240
 ATNGTATTGT TTAATTNGTC AGGTTTTTGA CAGANTTTTG TTTACAGGTA ATAAANNNTN 300
 TATCTCCAAA 310

SEQ ID NO:1563
 SEQUENCE LENGTH:307
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01778

SEQUENCE DESCRIPTION:

GATCGAAAAA AAAATCCAGA ACCTGGGGAA ACTGTGGACC CTACTGTACC TCAAAAGCTT 60
 ATAACAATCA ACCAACAATG GAAACCCATT GAAGAGTTGC AAAATGTCCA AAGGGTGACC 120
 AAATGACGAG CCCTCGCCTC TTTCTTCTGA AGAGTACTCT ATAAATCTAG TGGAACATT 180
 TCTGCACAAA CTAGATTCTG GACACCAGTG TGGGAAATG CTTCTGCTAC ATTTTATAGG 240
 TTTGTCTACA TTTTNGGGC TCTGGATAAG GAATTAAAGG AGTGCAGCAA TAACTGCACT 300
 GTCTAAA 307

SEQ ID NO:1564
 SEQUENCE LENGTH:305
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01779

SEQUENCE DESCRIPTION:

GATCCTGTGG TTGGCCACTG GCCATAGCTG CTGCCAGCT CTACCCCTCC CAGGGACCTA 60
 CCCCTCCAG GGACCGACCC CTGGCCCAAG CTCCCTTGC TGGCGGGCGC TGCCTGGGCC 120
 CTGCACTTGC TGAGGTTCCC CATCATGGGC AAGGAAGGGA ATTCCACAG CCCTCCAGTG 180
 NACTGAGGGT ACTGGCCTAG CCATGTGGAA TTCCCTACNC TGACTCCTC CCCAAACCCA 240
 GGGAAAAAG CTCTCAATTT TTNATTTTAA ATTTTGTGTT GAAATAAAGT CCTTAGTTAG 300
 CNAAG 305

SEQ ID NO:1565

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01780

SEQUENCE DESCRIPTION:

GATCACAGCT AGAGAATTGA GAATTAAC TA TACTACTAGC CATTTTAGGG CACCAAAACT 60
TGGGATTAAA CACTTCCTAC TTCCCACTCC CAACTCCTGA AATGAAGTCT TGCTATCTGT 120
GACTAGTTTT ATTTTGTGC TTTTAATAGT CCGAGCAGTC TTACCTTGT TACACATGTA 180
TTGACACCAT TTGCTTCAGG CCATGGAGCA CTGTTTCTCC CNTTTTACTA TTTATAGGAT 240
TCCGTTTTTT CACAAGACTT TTAATAAAAA GAAATTGTAG AAATAAACAC ATTAAAAATT 300
GAAA 304

SEQ ID NO:1566

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01781

SEQUENCE DESCRIPTION:

GATCTGCTTT CTCGTAATTA TAGATTGGTT TGCATTTTCT AGAAATTTT AAATAAATGG 60
AAACATATAG TGAGTACTCT TCTTGGGGTG GAAGGAAGTG TGTGTGGCTT TTTCACTCA 120
AGCATAATTA ATTTGATACT CATCCAGATT ATGCATGTAT CAATAGTTTA TTCCTTTTT 180
ATTGCAGAGT AGTAGTTANN NNCCTGGGTA TNCACAATTT GTTACCTGTT CATCTATTGA 240
TGGNCAATTG GGGTATTTCC AGTTTtagct ATTACAAATA AACCTGCTGT GACATCATGN 300
CAAA 304

SEQ ID NO:1567

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01782

SEQUENCE DESCRIPTION:

GATCTGCTAT AGCTGTCCAT CAGAGAGAAT ACACGTGGCT ATAACATCTA TAACAAAACG 60
ACGATTCCCTC TACAAGAGGC TGTTCCTNAC TGCTAACGTT GGTGTTTCTG GCGTGGGAAG 120
AAATGCACAG GCGTGCATGG CATGCACGTN CAGACAGCTG CATTGTAAGA NTNCTGTCAT 180
GCAGTCTGAA AAGGGAAGAA ACAGGATGGC TTTCTGTAGC CACACCTGTG AGGCGTGATG 240
ATTGTNGTAT TATTAGATTA CTGATTTTCC TTTTCTGAAA ATACATTGN NTTTTAATCA 300
CAAA 304

SEQ ID NO:1568

SEQUENCE LENGTH:304

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01783

SEQUENCE DESCRIPTION:

GATCTGCTGT TGCTGAGAGT NTGAGCGTGG ACTTGATGCA GTNATGACAA ATCATTGCTT 60
 AGAATTAATG TTTTCAAATG TGCAACTCTA GTTTTTAAAA CAAAATTGG TTCTTTACAT 120
 TCATTATTTC GTTTTTGTTC CCCTTTAGTA TTTAATGGTC TTTGGAGAAA AAATAATAAA 180
 ACAGAGTGTT ATATATATAT TTTTGGTGC AAGATAAGAT TTTCTGTTT TTGAAATAAG 240
 TCTGTAGCAT AAAAGGTAA ACTATTTTAA GGACANANTA AAAATAGGAG TGTATTTAAA 300
 CAAA 304

SEQ ID NO:1569
 SEQUENCE LENGTH:303
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01784

SEQUENCE DESCRIPTION:
 GATCCAGGGA TGAGGATAGA GTGGCCTGAG AGCAGTGCTT GGATTCAGCC TCCTGCTGGG 60
 TCCTTCTGCT GGATACAGGC ACCAAGAGGC GGGGGTGGAG CAGGGAGCTG CGCCTTCCTG 120
 GGGTGCCNGG TGGTGTGTAG AGAAAAGCTG CTTGTTTACT CCTTAAGTCA ATGTATTGGT 180
 GACTGTTGAT TTGTTGAACA ATTCAGGAAT CAAGGGCTGT GGAGAACTC CCTCATGTTG 240
 TTGGCAACAG GTGAATGAAC CTAGAGCGGT GACATGAAAA TAAAGCTCAC TGTACTCGC 300
 AAA 303

SEQ ID NO:1570
 SEQUENCE LENGTH:302
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01785

SEQUENCE DESCRIPTION:
 GATCCCCGA CGACGTGCTC GAGTTCCTGA AGGTGTATGA GANGCACTCT GCCCAGTGAG 60
 CACCTGCCCT GCCTGCATCC GGAGAATTGC CTCTACCTGG ACCTTTTGTG TCACACAGCA 120
 GTACCCTGAC CTGCTGTGCA CCTTACATTC CTAGAGAGCA GAAATAAAAA GCATGACTAT 180
 TTCCACCATC AAATGCTGTA GAATGCTTGG CACTCCCTAA CCAAATGCTG TCTCCATAAT 240
 GCCACTGGTG TTAAGATATA TTTTGAGTGG ATGGAGGAGA AATAAACTTA TTCCTCCTTA 300
 AA 302

SEQ ID NO:1571
 SEQUENCE LENGTH:307
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01786

SEQUENCE DESCRIPTION:
 GATCCATTTT GCTTACACTG TTGCATCACA AGGGACTCAC CCAGGGACCA TGACCTGCTG 60
 GTGTGTGTGT ATATTACAA AAACAAAACA AACAAACCAC CCATTGGGAT ATAAGGTAGC 120
 AATCACAAC TAAAGACTGC GGCTTGTGGA GGTGCAATAC CCTGACTCCC AAAGTTAGTT 180
 ACAGTGGGTT TTATTGTTTT TGTGACTGAA GGATTATTC AGACTGCTGT ACTCTTCATT 240
 TGATGTAACA AAATGCTATT AATCTAAATA TTTGTAAATA AAGTACCTGT ATCTAGATTA 300
 AATTAAT 307

SEQ ID NO:1572

SEQUENCE LENGTH:301

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01787

SEQUENCE DESCRIPTION:

GATCCATTAC CTAGGGTAAA ATTCTCCTGA ATGTCAAACA AAGAGATAAA CTACATTGG 60
 GTTTTGGGAA GTCCCTGTGA ATGATGAATC AAGAATCCTC AAGTCTGTCT TGCCACCCAT 120
 TTAATACGTA TTTTGTAA GGCTGAAGTT TAGAGTTAGA ATCAGGACAT TTTGGCCTAT 180
 TGAGAGGTTT TGAATTCAA CAGAAGATGC CATGTAAATC AGTGAATTN ATTCTTTAA 240
 AAGCAACTTA CAAAATTAC AAGATGTATT CAATAAGCA GTTAGCTTT GGTATATCAA 300
 A 301

SEQ ID NO:1573

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01788

SEQUENCE DESCRIPTION:

GATCCTCAGT GTGCTCACGG GGCTGCTGTT CGGCAGCNAT GGCTACTACG TGGCGCTGGC 60
 CTGGACCTCA TCGGCGCTCA TGTACTTNAT TGTGCGCTCT TTGCGGACAG CAGCCCTGGG 120
 CCGGACAGC ATGGGGGGCC CCGTCCCCCG GNAGCGTCTC CAGCTCTACC TGA CTCTGGG 180
 AGCTGCAGCC TTTNCAGCCC CTCATNATAT ACTGGCTGAC TTTCCACCTG GTCCGGTGAC 240
 GTC TNGCCCC AGATGGNAAT NAGTTTTTA ATTTCATTGN AAGGATTTG AANTTCCTTG 300
 AAA 303

SEQ ID NO:1574

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01789

SEQUENCE DESCRIPTION:

GATCTGTGTT CGAATCCTCC CCACCCCTTT CTTGTGGAG TTTCTAACC TGCTGCTGAA 60
 GCACAATGTT TTGGTGCTTT CTTTCTCNN TTGTTAAAGG CAGTGTCAA AAGCCATTCC 120
 AGATGCCAAG ACCAGGGGCT TATTCTAGG GAAGGTAGGT CGGTTCCAT GTTCCCTCC 180
 CGTTATTTT ATTTTINACT TTTGCTGA GACAAGCCGA GTATGAGGTG GTTTGATTTA 240
 AGAAAAATCA ATGAAATTGT TTA CTACTGT TTTAAATAA AACCGTAAAC TCTGAAA 297

SEQ ID NO:1575

SEQUENCE LENGTH:299

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01790

SEQUENCE DESCRIPTION:

GATCAGGCCG TTNCTGAGCT CAACGGGACC CAGGTGGAGT CTGTACAGCT CAAAGTCAAC 60
 ATAGCCCGAA AACAGCCCAT GCTGGATGCC GCTACTGGCA AGTTTGTNTG GGGCTCCCTC 120
 GCTGTCCAGA ACAGCCCTAA GGNTTGCCAC CGGGACAAGA GGACCCAGAT TGTTTACAGT 180
 GATGACGTCT ACAAGGAAAA CCTTGTGGAT GGCTTCTAGG GAACAGNGCT GGATTCCCTG 240
 TGCCTCATAT GCCCAAATG CTGGTTTTC AATAANCACT TGAGGGTGGA AGCTTNAAG 299

SEQ ID NO:1576

SEQUENCE LENGTH:300

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01791

SEQUENCE DESCRIPTION:

GATCCAAGAT AAAGAAGGCA TCCCCCCGA CCAGCAGAGG CTCATCTTTG CAGGCAAGCA 60
 GCTGGAAGAT GGCCGCACTC TTTCTGACTA CAACATCCAG AAAGAGTCGA CCCTGCACCT 120
 GGTCTCGCGC CTGAGGNGGT GGCTGTAAAT TCTNCAGTCA TGGCATTGCG AGTGCCCACT 180
 GATGGCATT A CTCTGCACTA TAGCCATTG NCCCACTTA AGTTTAGAAA TTACAGGTTT 240
 CAGTAATAGC TNGAACCTGT TCAAAATGTT AATANAGGTT TCGTTGNATG GGAGCATAAA 300

SEQ ID NO:1577

SEQUENCE LENGTH:295

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01792

SEQUENCE DESCRIPTION:

GATCTGGCTT CTTTCCAAG GNGGGGTGG GGTGTCCTN GCGTCCCTGT CTTGANGGA 60
 CCTCCTTCCC CCAGCCTCAT CACCGTGCTC TTCTCAGCGC CACCCTCAGC AGCCAGATTG 120
 CAACACCAGG GAGAGGCGGA TGCAGAGCCC CACCGGTGGG AAAGTTGCCT GTGGAAGGGA 180
 GCCTTTTGCT ACAATTGTA ACTTATTNC TAAAGTCTAT TTTGTAACAA TTTATTTAAG 240
 TTTAAAAAAA GGAAACTGC TGCCCNCAA AAAAGAAAT TTTCAAAACA AGAAA 295

SEQ ID NO:1578

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01793

SEQUENCE DESCRIPTION:

GATCTAAAGT TCTGGCTGTC CATTAACTC CAACTATGGT CTTTATTCT TGTGGTAATA 60
 TGATGTGCCT TTCCTTGCCT AAATCCCTC CTGGTGTGTA TCAACATTAT TTAATGTCTT 120
 CTAATTCAGT CATTTTTTA TAAGTATGTC TATAACATT GAACTTTAAA AAATTTATT 180
 ATTTATTCCA CTACTGTAGC AATTGACAGA TTAATAAAT GTAACATCAT AATTCTTAC 240
 CATAACCTCA ATGNCTNNTT TTAATAAATA AAAATTAAAA ATGAAAAGNG NTANAAA 297

SEQ ID NO:1579

SEQUENCE LENGTH:289

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01794

SEQUENCE DESCRIPTION:

5 GATCTCTCTT GTCCNCTNCT GCTCTTTNCT TGGTGCTCTT TTTNCTCGGT GGGGTGTGGG 60
 TAATAGAACA GCCGTGGGCT TTTGGGGACC TTTAACTTTT TTTNCTCTCT TTTGTTTATA 120
 AAAAACTA AACATTCAAT TCCAGAGAAC CAAAAATCCC ACCTTCCCAC CGAACACTAC 180
 TAAGGGGCTT GTGTTCTGCN CCATACCTTT NCTCTTTNCT TTCTGTCTTG TTAATGCTTT 240
 10 TAAAAACAAA TGAGTTTTTT ATATAATAA AGTTTTTAAA GTGTGTA 289

SEQ ID NO:1580

SEQUENCE LENGTH:287

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS01795

SEQUENCE DESCRIPTION:

20 GATCCCATCC GCATGGAGTT TGAATAAG GAAGACTTGT CGGGAACACA GGCAGGGCTC 60
 AACGTCAATTA AAGAGGCAGA GGCACACNCC NGGTGGGCAG CCAAGGAGCT GAGAAGANCG 120
 AAGAAGCTTT CAGACTACGT GGGGAAGANT GAAAAANCCA AAATTATCGC CAAGNTTCAG 180
 CAAAGGGGAC AGGGAGCTCC AGCCCGAGAG CCTATTATTA GCAGTNAGGA GCAGAAGCAG 240
 CTGATGCTGT ACTATCACAG AAGNCANGAG GNGCTCANGA GATTGGN 287

25 SEQ ID NO:1581

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30 CLONE:HUMGS01796

SEQUENCE DESCRIPTION:

GATCTATTGG CATATTCGGG AGCTTCTTAG AGGGATGAGG TTCTTTGAAC ACAGTGAAAA 60
 TTTAAATTAG TAACTTTTTT GCAAGCAGTT TATTGACTGT TATTGCTAAG AAGAAGTAAG 120
 AAAGAAAAAG CCTGTTGGCA ATCTTGGTTA TTTCTTTAAG ATTTCTGGCA GTGTGGGATG 180
 35 GATGAATGAA GTGGAATGTG AACTTTGGGC AAGTTAAATG GGACAGCCTT CCATGTTTAT 240
 TTGTCTACCT CTAACTGAA TAAAAAGCC TACAGTTTTT AGAAA 285

40 SEQ ID NO:1582

SEQUENCE LENGTH:280

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01797

SEQUENCE DESCRIPTION:

45 GATCCTCCCC TTTTGAAATG GCCCTGCTGT GTCAGTTTCC CTGTGGCCTT TTGAACTGTA 60
 CATCTCATAT GTTGGGAAAC GCTGGCCACT GGGAAATCAT TAGAAAGGAG GCTGTAGAAT 120
 ATTTGCCGAG CCTCTACTGT ATACCAGGGG CTAATCACC AAGCACATTC TAGGAATTGG 180
 GCCCTGCTCA TGAGGAGCCT TAGTGGAGAT TCCAGGTGAA TATTTATGAA AAAGTCAACA 240
 50 TTAGAACTGA AAATGGAAAT AAAGTCTTG AAAAGACAAA 280

55

SEQ ID NO:1583

SEQUENCE LENGTH:273

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01798

SEQUENCE DESCRIPTION:

GATCAGAATG GACTTCTNCC ACTGAGCATG ACANGCACTC GAAAGGCTAA ATCAACCAGA 60
AACATCGAAA CAAAAGCTCA GGTGTGCCCC CCGGCACGCT CCACANCTGG TGACCCGACA 120
GTTCCCTGGCT CCTTGTTTCA ACAGCTTGTC AGTNAAGAAG ACANCACGTC TGCACCTNCA 180
TTATTCAAAC TTGGCTGGCT CTCTAGTATG ACTACGNACA TGGAACACAT CTGTCTCTCC 240
CTAAATAANT ACTACCACAT TATTNCTTCT AAA 273

SEQ ID NO:1584

SEQUENCE LENGTH:270

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01799

SEQUENCE DESCRIPTION:

GATCCATATT TGTTTTGTGT TCTGCTTAAA TCAGCAAGAA TGATAAATTT GATGGTGTGA 60
AATTGGAAGT ATCAAGGGCT TTCTTTGGTG ATTGAGGGAA ATAATGTCTC TACTTGTAAT 120
TTATTGTGAC CCTTTTTCAC TGTATATGCT TTGTATGTCT AATATTTATT TCAATGCAAA 180
TTCAATTNNC CCTTCATCTG TATTGTTATA TCTAAGATTT TATTGATGTT AAAATCTAAT 240
TGTGGAATAA AAATCTCTCT GGAATTTAAA 270

SEQ ID NO:1585

SEQUENCE LENGTH:270

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01800

SEQUENCE DESCRIPTION:

GATCTGCTTG ACAGTGATTA AATCCTTAGC TCACATCCAT TCCCATCTTT NGGGCTCCTT 60
AGGCCCAAGG ATGGCATGTG ACTGGTCCTT GCAAGGTCCT TTCTTTGTCA CCAGCCAAGG 120
CATTGATAAC CAAGTAGCCA TTTTCTCTTT AAGGTTTCCT CTACAACCCC AAGGACTTTC 180
ATGATTATCC TCAGGGACAG GATTGGAGGC ATTGAGCGTG TTTATTAACA AATTGTTTTT 240
GGTAATAAAA TAAATGCTTG GACTCTTAAA 270

SEQ ID NO:1586

SEQUENCE LENGTH:269

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01801

SEQUENCE DESCRIPTION:

GATCTNGTAA ACTCTCTGTA TATCTTCCTA CCTTTCAAAA TCGTTCTTAG GGTTAGTCAA 60
GTCTGGAATA TAATTGCTGA CTATAAGTT AGCAATTATG CTTTAAAGGT GTTGTACAT 120
CAACCTAAAG AGAACCATCT ATGGAAGGTA TGTTTGAAC ATCTGTAGGA ACACAGAACT 180

GGGATTTCAC TGAGTTTACC ANNTCAACTG TGTGAACTGT TTCTGCACTG CTTGCTAATG 240
GCTTCATCTA ATAAATGTTT ACTTATAAA 269

5 SEQ ID NO:1587
SEQUENCE LENGTH:267
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01802

SEQUENCE DESCRIPTION:

10 GATCTAGGGA AGTCAACACA TAGTGTAATA TAATTACATG CCTAATGAAA AGAAGATGTC 60
ATTCCTAAT TTTNATATCT CATTTCGGC ATTTTATAA ATGTAAAAGG AAAACCTCTT 120
GTGTTACAC AGATTGCTGA ATTGATTCTT CCATATTTGT TAATAATTTA CTATTATTTA 180
15 CAAAGATTCA AATGCTTTTA TGACTAATGT AAAATGAAAA GAGGCTTACA TTTTAAATGT 240
TATTAATAAT ATGTAATTAA ATCTAAA 267

20 SEQ ID NO:1588
SEQUENCE LENGTH:288
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01803

SEQUENCE DESCRIPTION:

25 GATCGCTTTG AGGTCAATAT TAGTGAGCTG CCTGATGAGA TAGACATCTC CTCCTACATT 60
GAACAGACAC GGTAGAAGAC TCGCCCATTT TGGAATGTGA CCGTCTNTCC TTCAGGNGAG 120
GACACCAGGN TGGGGGTGAA GGAGACACTA CTGCCCCCAC CCCTGACAGC CCCCACCCCA 180
TGGCTTNCAT CTTTGCATN ACCANCACTC CTGAACCCCN ATTTCTNATT TGTCAGAATT 240
30 TTTTNNNTTA ACAAACACTAG AAATGNANCA CATGGGGTCT GTGGTAAA 288

35 SEQ ID NO:1589
SEQUENCE LENGTH:266
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01804

SEQUENCE DESCRIPTION:

40 GATCTTGCTT GTTTCACAAT GTAACAAGAC TCTACCTGGG TCCCCTGGTG ATGAGTTTCA 60
GCATAGAATA ATGTTCAAGG AAAAGAAAAC GAAAACAGTT TAAATCTCTA CCACAGCCTC 120
ACAAGCAAAT GCTAAGGGGA ACATACATGT AAAANGCCAG CAAACTATCT TCAAACCTCTT 180
CCGTCCTTAA TGTCTTCCAT GGCTATTGCC CCCACAATGG TCTCTTTNNT CCCTGCTCCC 240
TTATTAANGA ACTCTTTCTG AAGAAA 266

45 SEQ ID NO:1590
SEQUENCE LENGTH:266
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS01805

SEQUENCE DESCRIPTION:

GATCTATGAC TCCAACCGTA TGATTTTNTT GCCTCCCCAG TTTTCATCCC AGTGGTAACG 60
 CCTGATTTTT GGTAGCTATG CCATCTTCTG CTGAGGATTA CCATTACTGG GTGTATCACC 120
 CCAGTACTTC CAAATNCCTC TCCTCTATTG ATTCAGTTGT TATTGCAGTG TCTGCTTCAT 180
 CCGTGGAAGT TGAGGCTCAG ATGCCCCCTG CTCTGTAACC CTGGGGAATG TCAGAGGCAG 240
 GTAATAAAGG TTGTTTAAAC AATAAAA 266

SEQ ID NO:1591

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01806

SEQUENCE DESCRIPTION:

GATCAGGAGA CTTTGAATTN ATATATTTTA ATCCTNATTA AGCTTAAATA GGAAAGTTTC 60
 TTCAACAGGA TTACAGTGTA GCTACCTACA TGCTGAAAAA TATAGCCTTT AAATCATTTT 120
 NATATTATAA CTCTGTATAA TAGAGATAAG TCCATTTTTT AAAAATGTTT TCCCCAAACC 180
 ATAAAACCTT ATACAAGTTG TTCTAGTAAC AATACATGAG ANAGATGTCT ATGTAGCTGA 240
 AAATAAAATG ACGTCACAGG GCAAA 265

SEQ ID NO:1592

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01807

SEQUENCE DESCRIPTION:

GATCTGAGAG AAGCCCTGTC CTCCTCTCAC CTCACCCGCC GCTGCCACCA TCTCCTCTGT 60
 GCCAACTCCT TGTGGACCGC AAGAAAGCAT GACTTTGAAA AAGGGAAGCC ATTCCGAGAT 120
 TTTAAATGT TCATGGACTA TTCCATATTA AAAGCTGTTT TTGTTGTACA AAATTCAGTG 180
 ATGTTTCAGT CTATTTTATT TTGCCTTCAG AAAAGAAGAA AGTCAAAAAT AAAACTTTTG 240
 TGTATTACAG CAAA 254

SEQ ID NO:1593

SEQUENCE LENGTH:255

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01808

SEQUENCE DESCRIPTION:

GATCCTGGAG GATTTCCTAC CCCCCTCCTC TTCGAGNCCC CAGTCGTGAT GTGGAGGAAG 60
 AGCCACCTGC AAGATGGACA CGAGCCACAA GCTGCACTGT GAACCTGGGC ACTCCGCGCC 120
 GATGCCACCG GCCTGTGGGT CTCTGAAGGG ACCCCCCCCC AATCGGACTG CCAAATTCTC 180
 CGGTTTGCCC CGGGATATAA TAGAAAATTA TTTNTATGAA TAATGNAAAT AAAACACACC 240
 TNGTGGCATG GCAAA 255

SEQ ID NO:1594

SEQUENCE LENGTH:282

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01809

SEQUENCE DESCRIPTION:

5 GATCCATGAA GGAGGGCTGT GTGGAGAAGA TTGGGGACTG GCTGAGGAAA AATGTGCTGG 60
 TGGTAGCTGC AGCAGCCCTN GNGAATTNCT TTTGTCGAGG TTTTGGGAAT TGTCTTTNCC 120
 TGCTGCCTCG TGAAGAGTAT CAGAAGTGGC TACGAGGTGA TGTAGGGGTC TNGGCTCCTC 180
 AGCCTNCTCA TCTGGGGGAG TGGAAATAGTA TCCTCCAGGT TTTTCAATTA AACGGATTAT 240
 TTTTTCAGNC CGAAAAGNGA TGGTCTGAGT TTNTCTTAGA AA 282

SEQ ID NO:1595

SEQUENCE LENGTH:256

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01810

SEQUENCE DESCRIPTION:

15 GATCAAATAA ACCAGTGTAG GATATTAAGA CTATCAATTG GTGGGATTAG GCTTGACATT 60
 TTATTTTAT AAATATATAT TTNTCCTGAA TGTGTCTGAG TCCAAGAGTG GGCAAAAAAT 120
 20 AATTNCTAC TTTGGACTAA TCTATAGAGG TTTTGAAG TCTGCATTAC TAAC TTGTG 180
 AATTCATGAT ATTCTGCCTA TGGCACAAAT TGTAACCTT TGTTTTNCTA AAATAANGTA 240
 ATGAAAAACC TGNAAA 256

SEQ ID NO:1596

SEQUENCE LENGTH:204

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01811

SEQUENCE DESCRIPTION:

30 GATCTGCGCT TCCAGAGCGC ACTAATNCGG TGCTTTGCAG GAGGCAAGTG AGGCCTATCT 60
 GGT TGGCCTT TTTGAAGACA CCAACCTGTG TGCTATCCAT GCCAAACGTG TAACAATTAT 120
 GCCAAAAGAC ATCCAGCTAG CACGCCGCAT ACGTGGAGAA CGTGCTTAAG AATCCACTAT 180
 35 GATGGGAAAC ATTCATTCT CAAA 204

SEQ ID NO:1597

SEQUENCE LENGTH:246

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01812

SEQUENCE DESCRIPTION:

45 GATCATTATT ATATATAGGT ATTGATTGCT ACCCTGACCA CAGTGCTTTG GACTATGAGA 60
 AACTTCTTAG ATTTTATAT GTAAATNCTG TGGACCACTG GGAGCACAAT GCCCACATCA 120
 TCTTAAGNNG AGTTTATGTG CAGCATTAA ATCACTGTGT TTTCTTGTT AACTAAAAACA 180
 GACATGGGCT TTGATTTTT TCATACTATT AGACCATATC TCATAAAACC TTTTGAATTA 240
 ATGAAA 246

SEQ ID NO:1598

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01813

SEQUENCE DESCRIPTION:

GATCACGCAC ACACAATAAG TCTTCTCTC CGAAACCGGA AGTAAATCTA TATCTGTTAG 60
 AAATAATGTA GCCAAAAGAA TGTAATTTG AGGATTTTTT TGCCAATAGT TTATAGAAAA 120
 TATATGANCC AAAGTGATTT GAGTTTGTA AAATGTAAAA TAGTATGANC AAAATTTGCA 180
 CTCTACCAGA TTTGAACATC TAGTGAGGTT CACATTCATA CTAAGTTTTC AACATTGTGT 240
 TCTTTTIGCA TTCATTTTTT ACTTTTATTA ANGGNTCAAA CCCGN 285

SEQ ID NO:1599

SEQUENCE LENGTH:241

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01814

SEQUENCE DESCRIPTION:

GATCTAACTA TGTTTCCCC CTTTCAAGAA TAGAACTATT GGGGTGAGGA TAAGGGGTGG 60
 GGGAGAAAAA ATCACTGTTT GTTTTTAAAA AGCAAATCTT TCTGTAAACA GAATAAAAGT 120
 NCCTCTCCCT TCCCTCCCT CACCCCTGAC ATGTACCCCC TTNCCCTTC TGGCTGTCC 180
 CCTGCTCTGT TGCCTCTCTA AGGTAACATT TATAGAAGAN NTGGAATGAA TCTCCANGAA 240
 A 241

SEQ ID NO:1600

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01815

SEQUENCE DESCRIPTION:

GATCCAGAAT ACCCTGACCT CGCCCCAGTT CCAGCAGATG TGGAAGCGTT TGCCAAAGCC 60
 ATGCAGACA ACGCCAAGCC CGAGCAGAAA GAGGGCGACA CGAAGGACAA GAAGGACGAA 120
 GAGGAGGACA TGAGCCTGGA CTGAGCCACG CGCCGTCCTC CGAGGAACTG GCGGCTTGCA 180
 GTGCGTTGCA CACCCTCACC TCCCACCCAC TGATTATTAA TAAAGTCTTT TCTTTTAAA 239

SEQ ID NO:1601

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01816

SEQUENCE DESCRIPTION:

GATCCAAAGT AATATGTAGG TTCAATATTT TGTAGGTTTT ATAATCAAAT GTCTCCCTAA 60
 AGAGATGACA TAGGGAAGAA AAGCCTAATG TATCATCTTA ATGGATTGAG TTTTATTAT 120
 GCACAAATAA CTGGGCTTGT AACCTAGGAA TATGATTAGA GCGTGATGCT GGCTTAAAAA 180
 ATAGGACTNG TGAATCACAG TTTGTNNNTA ATAACTACT GGTGGAAAT ATTAATA 236

SEQ ID NO:1602

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01817

SEQUENCE DESCRIPTION:

GATCTCCCCG CCGCAGCCTC CTCAGAAGAC ATCGAGCGGT CCTGAGAGCC TCCTGGGCAC 60
 GTTTGTCTGT GTGCTGTAAC CTGAAGTCAA ACCTTAAGAT AATGGATAAT CTTGGGCCAA 120
 TTTATGCAGA GTCAGCCATT CCTGTTCTCT TTGCCTTGAT GTTGTGTTGT TATCATTTAA 180
 GATTTTTTTT TTTTGGNAAT NATTTTGAGT GGCAAANTAA NGATTAGCAN TTTAA 235

SEQ ID NO:1603

SEQUENCE LENGTH:324

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01818

SEQUENCE DESCRIPTION:

GATCTGCCCA GGTGGCCAG ACTTCCTAGC ACACGTGCGC GGGAGCAGCT GCTTTGAGTG 60
 CACACACTAC CAATCGTTCC TGGAAATACAG GGAGGTGGTG GACGGCCTGG AGAAGGCCAT 120
 CTACAAGGGC CCAGGCAGCG AAGAGGGCCC TGA CTGCCCC CCCC GGCCCC CCTCTCGGGC 180
 TCTCTACCC AGCCTGGTAC TGAAGGTGCC AGACGTGNTC CTGCTGACCT TCTGCGGCTC 240
 CGGGCTGTGT CCTAAATGCA AAGCACACCT CGGCCGAGGN CTGCGNCCTG ACANGGNNAC 300
 CTCTCTGAAC TGCAACACTT GGAN 324

SEQ ID NO:1604

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01819

SEQUENCE DESCRIPTION:

GATCAAAAAG CAAGCAGAAA TGAATCCACA TTCTAGTCCT TTATGCAGTA TACAAGGAGA 60
 ACTGTCCTGT AGGATATTCT CTTCTGATG GTGCAGAAC CAGAATTAGA AGTTTGTTGGT 120
 TACAGCATAC TCTGTCTTC AGAAAGGCGT GATTCTAGCT GTTGACCCCT TGCAGCTGTT 180
 GGAATCTCTG CAAGAACCTC TGTATTCTTC TAATAAATC CCTCTTTTAT TTTAA 235

SEQ ID NO:1605

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01820

SEQUENCE DESCRIPTION:

GATCCCAACA ATGAAGCCAT TCGAAATGCT ATGGGCTCCC TGGCCTCCNA GGCCACCAAG 60
 GACGGCAAGA AGGACAAGAA GGAGGAAGAC AAGAAGTGAG ACTGGAGGGA AAGGGTAGCT 120
 GAGTCTGCTT AGGGGACTGC ATGGNAAGCA CGGAATATAG GGTAGATGT GTGTNATCTG 180
 TAACCATTAC AGCCTAAATA AAGCTTGGCA ACTTTTTTCC CTTTTTGTCT TCAAA 235

SEQ ID NO:1606

SEQUENCE LENGTH:234

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01821

SEQUENCE DESCRIPTION:

GATCAAAAAG AGAGTGGTTG TGGAACTGT TGGCCAGTT GGTTCAGC CAGAGACATT 60
 CAGAAAAGTTT TTAGCTCTAT ATTTGCATGG TGCTGCGTGA NGGAGGACCC CTCTGAATCC 120
 TGAAACCCCT CTTGCCCTCTC TTCCACGGAA GAGGGCCTGG GCCCGTGA GCCTCAGTGC 180
 CCGTTTGCC TGCTGCTCTC GCTGACAATA AAGAGCCCTT GCGTTGCACT GAAA 234

SEQ ID NO:1607

SEQUENCE LENGTH:234

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01822

SEQUENCE DESCRIPTION:

GATCTGGAAC CTCAGCCTGG CCAGACACAG GCCCTCCCTG TCCCCAGAG AAAGGGGAGC 60
 CCACTGTCCT GGGCCTGCAG AATTGGGTT CTGCCTGCCA GCTGCACTGA TGCTGCCCT 120
 CATCTCTCTG CCCAACCCCTT CCCTCACCTT GGCACCAGAC ACCCAGGACT TATTTAACT 180
 CTGTTGCAAG TGCAATAAAT CTGACCCAGT GCCCCCACTG ACCAGAATA GAAA 234

SEQ ID NO:1608

SEQUENCE LENGTH:356

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01823

SEQUENCE DESCRIPTION:

GATCACATAA AACAGATTG CATAAAATTA CCATGATTGC TTTATGTTA TATTTAACTT 60
 GTATTTTGT ACAAACAAGA TTGTGAAGA TATATTTGAA GTTTCAGTGA TTAAACAGTC 120
 TTTCCAACCTT TTCATGATTT TNATGAGCAC AGACTTTCAA GAAAATACTT GAAAATAAAT 180
 TACATTGCCT TTTGTCCATT AATCAGCAAA TAAACATGG CCTTAACAAA GTTGTGTTG 240
 TTATTGTACA ATTTGAAAT TATGTCGGGA CATACCCTAT AGAATTACTA ACCTTACTGC 300
 CCCTTGTA GAATGTATTA ATCATTCTAC ATTAAAGAAA ATAATGGGTT CTAAAA 356

SEQ ID NO:1609

SEQUENCE LENGTH:230

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01824

SEQUENCE DESCRIPTION:

GATCACCTAT GCCAAGAAAT AACATTGGG ATAGTCGTCT TAAAAGACT TGGTGTATT 60
 TACAGTGTGTT GTTTTGATAA CATTGGCTG GGTCAATTTA ATAGTTAGAG ATGAGGAGGA 120
 GTAAAAGTGA AATTTTGTG AAGGACTTAA ATTATCCAGT GTTCTTTAG CCTTGGTGAA 180

CTATGAAATA CGAAGNCCTT AATTTTGTAC AATAAACTTT TATTGTAAA 230

5 SEQ ID NO:1610

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01825

10 SEQUENCE DESCRIPTION:

GATCTGTTGA ATATTTGCTA AAGACCAGTT CTTTAAGCTA AGACATGTAA AAAATCCCAA 60

ATGGCAGTAC CTCATTGTTT ACTTAGCTTT TGTACTTATA TTTTCAGAG GAAAAAACAC 120

TACTGTAAT TGTGAATAGC CAATACATAA CTGTATTGTA TGCAATCTG TGATTGTTGG 180

15 CAGTGTCTATC TCTGAGAAAC AGATAAATAA AGTTTATTTA CTATAAA 227

SEQ ID NO:1611

SEQUENCE LENGTH:234

SEQUENCE TYPE:nucleic acid

20 TOPOLOGY:linear

CLONE:HUMGS01826

SEQUENCE DESCRIPTION:

GATCTAGCCA AGGCTGGTCT GCAGTATCAG ATGTCCAAAC TCATCTACTA TTAGCCATAT 60

25 TTTGTGAGTC GTTTGTCTAA ACTTTGTCAA AAATGCCTTT GCCATGATTT TGTGCTATC 120

TGGATTTCAA ACATGGACAG TTAGGAAGAT GTGCATTGAA GTAGGAAAT TTTGTTTACA 180

TTTGCTGTTA TTTATTTTTT AAATTAATAA TGGAAATGTA TTTTAAAGTT TAAA 234

SEQ ID NO:1612

30 SEQUENCE LENGTH:226

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01827

SEQUENCE DESCRIPTION:

35 GATCTGTTGG GTTCTCTATT AATTTATTTT ATACATTATA GATTCTGGGT TGATAAATTC 60

TGCTCAATTT GAAAAATTTT ATATTTTGTG TCAAATCTGT TACAATTTAT ATTGGTGGGN 120

GCAAAAGTAA TTGCGGTTTT TGCCGTAGAC AGTAATGGCA AAAACTGACA ATTGCTTTTG 180

40 CACCACCCTA ATAATATTAA NTATAATCAT GACTTTAAAC ATCAAA 226

SEQ ID NO:1613

SEQUENCE LENGTH:224

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS01828

SEQUENCE DESCRIPTION:

GATCGGGAAC TGGCTCCGTT GTGCTGAGGT CATCTTTGGT CATCAGCCTC CAGCATNTGG 60

AAACACCTCC AACGCAATGT GGCTTTTACA TTTCTTTCTT TCTTTCTTTT TTTTTCCTGG 120

50 TACTGGGAAT ACACAACACC AGCTGTTTAA TTATTATTG GGGAGGGGGT TGTGATTTTA 180

TTATNGTTT TTTTAAATG AAAAATAAAA NGTTATATAT TAAA 224

55

SEQ ID NO:1614

SEQUENCE LENGTH:222

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01829

SEQUENCE DESCRIPTION:

GATCAGCAGA TACATGTCAG TGCAGAGGTT CTCTGCCCTC CAGAAGCCCT CGTCTGGGAA 60
 TTCGAGAGAG GAGGAGGACC CAGGGCCAAA GGAATCCTCA AACTCCCTC CAAGGGAGAT 120
 ATTGTAAGGG GAAAACAAAG TGTTATTTC CCCAAAACAA CCCAGCTCA CCCCATGTCC 180
 CTTCTACACG CTTACTACT GAGGGTGAGT GGAACGNTA AA 222

SEQ ID NO:1615

SEQUENCE LENGTH:222

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01830

SEQUENCE DESCRIPTION:

GATCAGAATA TGTATGCAGT TCTTTCTTTA ACCCTTTTTT CTCCTATGTA CTGTGAACAT 60
 TTA AAAAGTA CTTTAAATA TTCTTTGGAA ACTTAGCTTT TAGTAACAC TTGGTTGTAT 120
 CATAATTNAT TAACTANTGN NTTATTGGTA AACATTGGCT TGCCTCCCAT GACTTGCCAT 180
 TATAATTAAA ACTGTGACTA CTATCTGTCT CCATTNCATA AA 222

SEQ ID NO:1616

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01831

SEQUENCE DESCRIPTION:

GATCCCN TTC CCACCTCTC TGTTGGCCTC AGAGTCACTC CTGCCCCCTC TCCCTGACTT 60
 GGTGCTCACA TGCACCTCAC TAGGGTTTGT GACCAGGGTC TGGATGAGCT TGAATTGAA 120
 TGAATTGAGT TTGTATTNT AGAACCTGG GTTTTACAT GTTTGGTCTT TTTTNGTTTT 180
 GGT TTGTCAC CNTCGATAAA GGAAGTATAT TCATCCAAA 219

SEQ ID NO:1617

SEQUENCE LENGTH:220

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01832

SEQUENCE DESCRIPTION:

GATCGCGGCG GANTNGGCC CGCCGCCTGG TACTCAAGCC CGCGGGGACA TTGGGAAGGG 60
 GACCCCGGCC CCTGCCCTC CCTCTCTGC ACCGTACTGT GGAAGAGAA CACGCACTTA 120
 GTCTCTAAG AGTTATTTT AAGACGTGT TGTGTTGTN TGTGTTGTN CTTTNNATTG 180
 AATCTATTTA AGTAAAAAA AAAATTGGTT CTTTATTAAA 220

SEQ ID NO:1618

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01833

SEQUENCE DESCRIPTION:

GATCANGGCA CTCAACTCA TTTGGAAAA NTGAACACTG ATGACATGGT ATAGGAGTGG 60
 GNGGGGTGTT GAGCCACCCA TCANACCCTC TTTAGCTGTG CAAGATAAAA GCAGCCTGGG 120
 TCACCCAGGG CCACAAGGCC ATGGTTAATT NTTANCGGCA AGGCAAATCC ATNGTTGNGA 180
 AGTGCANTGG GCATAGTAAA NGTGCATGAT TTTAAN 216

SEQ ID NO:1619

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01834

SEQUENCE DESCRIPTION:

GATCATAGAA AATAAATAGA AGAGACAGTG AAGCAAGTAA AAAGAAAAGC ATTGTTTTAA 60
 TTTGTTTGCA TTAATTTTT TCATTGTCA AAATGCTTCT TTTGTTGCCA CAGTAAAGAA 120
 CAGTTTTTAT TGTTTTGTA GTAAAATTAC GTAGCTGATT TTGTATGTAA AGATTAAATT 180
 CCATAATAAA AATTATTGTA TGTTTACTGT GAAA 214

SEQ ID NO:1620

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01835

SEQUENCE DESCRIPTION:

GATCAGAGTG GCCCAGAC ATTGCTTTCT TATCACCTAT CATGTGAATT CTACCTGTAT 60
 TCCTGGGCTG GACCACTTGA TAACTCCAG TGTCTGGCA GCTTTTGAA TNACAGCAGT 120
 GGTATGGGGT TTATNATGCT ATAAAACAAT GTCTGAAAAG TTGCCTAGAA TATATTTTGT 180
 TACAAACTTG AAATAAACCA AATTGATGT TAAA 214

SEQ ID NO:1621

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01836

SEQUENCE DESCRIPTION:

GATCTGTGTC ATAAGTGACT CCGGATGCAT CAGTGTCAC CAGTTGGAAG CAATGACAAG 60
 GATGGCTGGC TGGTGTGTTT CAGCCTCCG GTTATAGAC TGTATTATC TAGTGGATTC 120
 CTGCAGGCC CATACTGAGC CTGGACTGAA AGTATCCACT CGGACCATCT GTTATCTCTC 180
 TACTACTGAA ATAAAACCTC TTCCACCCAA A 211

SEQ ID NO:1622

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01837

SEQUENCE DESCRIPTION:

GATCTGAGAT GGAAGAGTTT CATCCCAAAA CCATCTCCCC CTGACCCCCA GTCCATGGAA 60
AAATTGTCTT CCACAAAACC GGTCCCTGGT GCCAAAAAGG TTGGGGAAC TCTGGTCGGT 120
ACAAAAGTAA TTGTGGTTTT TGCACNGTTG GAATTTGTCA TNTGATATTG GAATACATTC 180
TTAAATAAAT GTGGTTATGT TATACATCAA A 211

SEQ ID NO:1623

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01838

SEQUENCE DESCRIPTION:

GATCAGCGAG GTTCTCCAGG ACCTTAGGTT TGATGCGGAA TCTGCCGAGT GATGGCGGCT 60
CCCCAGGGAT GCCGCCGAGG GAGATGGGAA ACGGGGCGGA TGGCGCCAG CCCAGCCCTA 120
ACTGCCAGCT GGCTGGGGTC GCGCCCCACT GCGCTGCTGA CCTTCCTGCA GTTCCAGACA 180
CCTCCACAA TAAAGAGCTC CTCCTCTGTA AA 212

SEQ ID NO:1624

SEQUENCE LENGTH:208

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01839

SEQUENCE DESCRIPTION:

GATCTATGAC AATGTATAGT CAATAAATGA TAGCAATTAT TTTTAATTAT CAAAATAAAT 60
TGTTAGAGAT TCAAGTTAGC ATACAAAATG GAAATACATT GACAATCTAA AAACATACT 120
AAACATAAAA CTCAAGACTT TATTCCTCTT CCTGTTCTAT CAAAATTGTG CCAAGTAAAA 180
AANTAAAANT TGTTCTTTTT ATTTCAAA 208

SEQ ID NO:1625

SEQUENCE LENGTH:210

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01840

SEQUENCE DESCRIPTION:

GATCTAGATG GCAGATAGGA ACTTNTTGT CACAAAAATA CTGGAGGAAA ATNTTGTA 60
AATAGACTTT TGGACACACA GCTGTTGGGG CTGCACTGAG CTGCAATTTT TAACATGGAT 120
TTATAACTTA ATGTTTCTGT TTATAAATA CTAATGATT GCAATGTATT TTAATGGCCA 180
ATTAAACAG ATGTTTATT CTTTCTGAAA 210

SEQ ID NO:1626

SEQUENCE LENGTH:208

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01841

SEQUENCE DESCRIPTION:

GATCCAGGAT TCTGGGAGGC TTCAGTTACC GCTGGCCGAG CTGAAGAACT GGGTATGAGG 60
CTGGGNCGGG GCTGGAGGTG GCGCCCCCTG GTGGGACAAC AAAGAGGACA CCATTTTCC 120
AGAGCTGCAG AGAGCACCTG GTGGGGAGGA AGAAGTGTA CTCACCAGCC TCTGCTCTTA 180
TCTTTGTAAT AAATGTAAA GCCAGAAA 208

SEQ ID NO:1627

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01842

SEQUENCE DESCRIPTION:

GATCTCACAG CCACGAATTT AGAACTTCCT CCTATAGCAT TTTCTATCTT TTTTATGGCA 60
TTTATTTTAT TCTATCTTGT TATGATTACA TAATCTGTTT AATCCCCAAT TATATATTGT 120
AAATACCTTG AAGGAAAGGA GTCTTTATTA TCTTTGGTGC CTGGTGTITA GTTTTAATAT 180
TTTATTAAT ACATCCAAGG AAA 203

SEQ ID NO:1628

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01843

SEQUENCE DESCRIPTION:

GATCCACTGT TCAATCTGCA CAAGATTNGG GNNCCAGACA TGGGAGACTT CAGCTGCCTC 60
AGAGGACCGT GGACAGGGAA GGCAGCCTCG CATCCCTCTG TCCATGCCTG GNNTGACTTT 120
AATAACCAAG AGTTTATTT TTGAATTTGT AGCTGTCGTT CACTTTTAC CCACCCATTC 180
AATAAACCTT ACAGAATTGC AAA 203

SEQ ID NO:1629

SEQUENCE LENGTH:201

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01844

SEQUENCE DESCRIPTION:

GATCCAAGTA ACAGTGACTG CAGTTAGGGT CGAGAGCTTC TCCGAAGCAG CGGTATGCA 60
GGCTTTTGTG TGGCTGACGC TTCCCTTTT CACAACAGTA AAAAGCTATC AATGGGAAAT 120
TGTGGACTTT TCCACCAAGG GACTCAATGG GGAATCAATG TGCAATATTC AGTCAACATA 180
AAACTCTTA AGAACTCCAA A 201

SEQ ID NO:1630

SEQUENCE LENGTH:201

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01845

SEQUENCE DESCRIPTION:

5 GATCACAGAC CACGAGTGCC TTTCCCGGAC CTGGACGTTG CCTCCAGAGC AGGCACCANC 60
 TCTTTCCCTC TCTAGACAGA AATATTTTGG TAAGGTTCTG GGCAGGGAG GGAGCATGAA 120
 GTACGAGGAA AACTTGAATT CCAGATTTN AATGCAAAGT ATTTATCATT TCTACCAGAA 180
 ATAAACGTTT TAAGTTTAA A 201

10

SEQ ID NO:1631

SEQUENCE LENGTH:217

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS01846

SEQUENCE DESCRIPTION:

GATCTTGAGG TCATTCTGTT TAGGTCATTN TCTCAACCCA ACCTCCCCAA ACTCTGGTTT 60
 GAGCCAATAT GTGTTCTATT GTTCTCAGAG CACCAGCCGA CTGTACAACA ATTGTTATAA 120
 AAATGTTTAT TGTTTACCAA AACCAAGTGA CCTCTTATCA AATGCTGCTT GGTAACAAAA 180
 20 TCTATCACAG TTTTAATAAA AAGAAAAAAA AAGGAAA 217

SEQ ID NO:1632

SEQUENCE LENGTH:200

25

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01847

SEQUENCE DESCRIPTION:

30 GATCTGTTTT NNTAAACAC TAACAGAATA ATTCTTTATA AATAGGTAAG CCTTACACTT 60
 GTTAAAGAAA TTTACCTCTA ATTTCACTCT CACTAATGTA AAATACTGGG ACTTAAGTAT 120
 ACAATTCAGT CACTAACTGT ACAGTTTAT GTGGGGAACA ATTCATGCAG GCTACTGGAA 180
 AATTAAATCT TATTACCAA 200

35

SEQ ID NO:1633

SEQUENCE LENGTH:200

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS01848

SEQUENCE DESCRIPTION:

GATCCNGGGC ATTNCTCTG GGGAGACAGG CCTGAGGCCA GCTCGGNAGC CAAGCAGATT 60
 CCAAACCACT ACAACCCTTG CCAAACACAG CCCACTCCAT TTNANACCGC CTCCTGAGG 120
 AGAAAATGCA GACTCAGGGT TCCAGTAACC AGTGATGGAT TCACCCCATC TCCCAAATAA 180
 45 TGGTTTACTT GTTTACAAA 200

SEQ ID NO:1634

SEQUENCE LENGTH:333

50

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

55

CLONE:HUMGS01849

SEQUENCE DESCRIPTION:

5 GATCTTCTAA GAATTTTGCA AAATCTAAA CAAATATAGA GATGGTATAT AGAATTCATA 60
 TCTAGAAAAC TTTGATTTTA ATGTGAGCTT ATCAAATTG TNCTGGCTTT TTTGGCACTA 120
 AGGCAAAAAC ATGTTAACCA GAAATAATTT ATTCTTCATG TATGTAAAAT ATTTGAGAAT 180
 GTTTAGCCTT TTATTAGAAT TTTATTGGA AAATATTTAT CTTTCTACAC ATTTTACACT 240
 TATGTNCCTT TGCTTATAAC CCAATTCTT AACTTTTTTG TTAATAAGC AAATATCAAT 300
 10 NATGTTTTAT TATCTAATAA AGTGTAAAGAT TCN 333

SEQ ID NO:1635

SEQUENCE LENGTH:199

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01850

SEQUENCE DESCRIPTION:

20 GATCGAATGG CTTTTTGCA CTAAGTACTA TGTGTAGACA GGTTTTATAT TATAAAGTAT 60
 GCATTCTTAT CACCTAGTAT ATAGTTAGTT TGTAGAGTGA TTTCCCCCA GTTTCTTGAA 120
 CATGATATCT TCACATCTTG GACCTTGGTC AGTTGTGCTA TTCATTATTA AACACTAAAA 180
 CTTTGGCGGT TCTTGCAA 199

SEQ ID NO:1636

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01851

SEQUENCE DESCRIPTION:

30 GATCTGGATG TTGAAAAGAG TCTGGCACCT CCTCCNTCTC TCTTGCTCAC ACTCTCACCA 60
 CGTGATATGC TGCCTCCTCC TGTGCCCTCC ACCATGAGTA NAAGCTTCCT TANNCTCTTN 120
 TNAGAAGCAG ATGCTGGCAG CATGATTCTT GTACAGTCTG CAGAACAGTG AGCCAAATAA 180
 ACCTCTTTTC TCTAAA 196

SEQ ID NO:1637

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01852

SEQUENCE DESCRIPTION:

45 GATCCAAGTA TTTCTNCATC AAGCAGTTTT TAAAAGGAAA ACGATAATAA TCAGTAGGCT 60
 CCATGGAAGC CTTTNCCTTA ATAGCTATGT GCCAAATACT TTNATCTNGT GTGACAGTCA 120
 TGTCAGAGTG AAATCTCTCA GGAAAAGTGT AACTAGTAGT TACAAAGTAA ATAAAGGATT 180
 TCATTTTAAG GTGAAA 196

SEQ ID NO:1638

SEQUENCE LENGTH:195

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01853

SEQUENCE DESCRIPTION:

5 GATCCTCCTG CAGGGCTAGG CGGATTGTTT TGGATTTCCT TTTGTTTTTC CTTTATAGTT 60
TCCATCTTTT CCCTCCCTGG TGCTCATTGG AATCTGAGTA GAGTCTGGGG GAGGGTCCCC 120
ACCTTCCTGT ACCTCCTCCC CACAGCTTGC TTTTGTGTA CCGTCTTCA ATAAAAAGAA 180
GCTGTTTGGT CTAAA 195

10 SEQ ID NO:1639

SEQUENCE LENGTH:194

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS01854

SEQUENCE DESCRIPTION:

20 GATCTTAGCT TTGATAAATG ACTGANGCTG GAGAAGCCGT GGTGAAGTC AGCCTACACT 60
ACAGTGCACA GTTGAGGAGC CAGAGACTTC TTAATCATC CTAGAACCG TGACCATAGC 120
AGTATATATT TCCCTCTTGG AACAAAAAAC TATTTTCCT GTATTTTAC CATATAAAGT 180
ATTAAAAAAA CAAA 194

SEQ ID NO:1640

SEQUENCE LENGTH:268

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01855

SEQUENCE DESCRIPTION:

30 GATCTGAGTA ATTAGCAGGT ATGATGCTGG GACTGGAAAA TAGAAAGTAA TAACTAAAGG 60
GTTAATGTGC AACGTTATTT TTTGGCCTTG TTCATAATTT TATGTTTTCA GTGGCNTGTG 120
TACATATAGA ATTGTTAAAG TTGTCATTTC CAATATTTAT ATTAGAAAAA TTATTTAGAT 180
ACTTTATAAT TTAAACCGGC ATTTTAAATA ATGACACTTG CATTATTGT ATTGTAATAA 240
ATTTCACTTT TAACTTTAAA AGTTTAAA 268

35 SEQ ID NO:1641

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS01856

SEQUENCE DESCRIPTION:

45 GATCTCTGCT CAGAGAAGTG CAGGGGGAGC CTTCCAGCTC ACTCTCCCTG AGGACTGGCT 60
TGACAGGGGC TATGGGTTTG CTTTGGTGT TTTTAAAAA AAAGAAAAATA TATTTTTTTG 120
AAAAACGAC TGCCCATCCC GGGTCCTTTC CCTGATGGGT TGGGGCAGTT ACCTGGTTGC 180
TGTTTTAATT AAA 193

SEQ ID NO:1642

SEQUENCE LENGTH:193

50 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01857

SEQUENCE DESCRIPTION:

5 GATCACATCA CTCCACCCCT GCCAGGCCCC AGGTAGGAA TAGTGGTGGG AGGAAGGGGA 60
 AAGGGCTGGG CCTCACCGCT CCCAGCAACT GAAAGGACAA CACTATCTGG AGCCACCCAC 120
 TGAAAGGGCT GCAGGCATGG GCTGTACCCA AGCTGATTTC TCATCTGGTC AATAAAGCTG 180
 TTTAGACCAG AAA 193

10 SEQ ID NO:1643

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS01858

SEQUENCE DESCRIPTION:

15 GATCCTTAGT ACAACATGTG AAAGAAGATA TGTGTCTTT ACTCACAGTG GAGGCATTTT 60
 TCTAGCTGTG TTTGATTGG CTTCCCTATA GATTCAGGAC CCATAACTCT TGTTCCTACT 120
 20 CATCTGCTAT GCTGCTGATA AGGACTTTCA GGTCAACAGC TGTAAGTCT AAATGAAGTT 180
 AATACTCTGG AAA 193

25 SEQ ID NO:1644

SEQUENCE LENGTH:192

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01859

SEQUENCE DESCRIPTION:

30 GATCTAGGCA AACCTTTATA AAGTTGCAGT ACCTAATCTG TTATTCACAC TTCTCTGTTA 60
 TTTTGTGTG TCTTTTAA TATATAATAT ATATCAAGAT TTTCAAATTA TTTAGAAGCA 120
 GATTTCCTG TAGAAAACT AATTTNCTG CTTTTACCA AAAATAAACT CTGGGGGAA 180
 GAAAAGTGGA AA 192

35 SEQ ID NO:1645

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40 CLONE:HUMGS01860

SEQUENCE DESCRIPTION:

40 GATCTGTCTG TTGCTTGTTT AATATATTTT TTTTATGACA TTAATAAAG TTAAAAAGGG 60
 TTTTNTATCC ACTGTCAATT TCAATTGGAT AACATTTTGT CAAGNTTTT TTTTCTGAT 120
 TATTTGATGC TAGCTGGAAT TCAAGAAATG GCATTGACCT TATTCAAATA AAGAAATATT 180
 45 TTAGTAAA 188

50 SEQ ID NO:1646

SEQUENCE LENGTH:190

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01861

SEQUENCE DESCRIPTION:

GATCAAAAC TAATTTGGGA TATGTATGGG TAGGGTAAAT CAGTAAGAGG TGTTATTTGG 60
 AACCTTGTTT TGGACAGTTT ACCAGTTGCC TTTATCCCA AAGTTGTTGT AACCTGCTGT 120
 GATACGATGC TTCAAGAGAA AATGCGGTTA TAAAAATGG TTCAGAATTA AACTTTTAAT 180
 TCATTGAAA 190

SEQ ID NO:1647

SEQUENCE LENGTH:183

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01862

SEQUENCE DESCRIPTION:

GATCAGTTGG GTGCTATGTG CTCAGCTTTC CTAAGTCAGC TTCATTTAAT GCAGAGTGGT 60
 GTTTGAATTT GGCTTAGATG GGCTGGCAGG CATGATTTTA AAAAATGTAA TCATCAGTAA 120
 GAAGTACTTC CATGTTAAAG ATGCAAAAAA AAAAGTCTTC ATTAAAAATT CTATTTAANG 180
 AAA 183

SEQ ID NO:1648

SEQUENCE LENGTH:361

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01863

SEQUENCE DESCRIPTION:

GATCCAAACA AATACACATT CTGTNTTTTA GCTCAGTGTT TTCTAAAAA AGAACTGCC 60
 ACACAGCAAA AAATTGTTTA CTTTGTGGA CAAACCAAT CAGTTCTCAA AAAATNACCG 120
 GTGCTTATAA AAAGTTATAA ATATCGAGTA GCTCTAAAC AAACCACCTG ACCAAGAGGG 180
 AAGTGAGCTT GTGCTTAGTA TTTACATTGG ATGCCAGTTT TGTAATCACT GACTTATGTG 240
 CAACTGGTG CAGAAATTCT ATAACTCTT TGCTGTTTT GATACCTGCT TTTNGTTCA 300
 TTTTGTTTT TTTTGTAATA ATGGTAAANC TTCAGAAAT AAAATGTCAG TGTGNNTAA 360
 A 361

SEQ ID NO:1649

SEQUENCE LENGTH:183

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01864

SEQUENCE DESCRIPTION:

GATCAGGACC TGGGGGCCTA CAGTTCTGCC AGGAAGTGCC TGGCCAAACA GAGGCAGAGG 60
 ATGCTGCAAG AGAGAAAAGC TGCAAAANAG GCCGCCGCTG CCACCTCCTG AGGCAGNTGT 120
 GGGTGCCCT GCTGTGTGGC TCTGTATGAC TGTGCTGAA ATATAAGCC CTGCAACCTG 180
 AAA 183

SEQ ID NO:1650

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01865

SEQUENCE DESCRIPTION:

GATCTCAGCA CAAGCAGGGG AGCAGCTGGG GGAACACAGC TTTATGTAAT TACCTCTGTT 60
CAATATTTAG CAAGTTGCAT TGTAAACATTG TAACTGTTTG TTTCTCCTTG GATGATGAGC 120
TACCCCAAG AAGGGGTCAT ATCAGATTGG GTCTCATTAA AATGTCTGAT GAATGAAA 178

SEQ ID NO:1651

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01866

SEQUENCE DESCRIPTION:

GATCTATGGC TTAATAAATT TGTCTCTGTG ACAATNTTTG TAAATCTAGC CAATAGAGTC 60
ATTTACAGAA GAAAAATNAG CATGTAATAA TACAAGAACT GTTCCCCCT CAAAACCTGA 120
ACCTGAATTA TTTGTAAAA CTGAAATTA ATGATTAAAG AGAAGCCAGA ATTGTAAA 178

SEQ ID NO:1652

SEQUENCE LENGTH:189

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01867

SEQUENCE DESCRIPTION:

GATCTGGAGC TAATAATGAC TGAGATGGAG ATATCTCGAG CAGCAGCAGA ACGCAGTTTG 60
CGGGAACACA TGGGCAACGT GGTAGAGGCG CTTATTGCCC TAACCAACTG ATGCGTGCTT 120
TCTCAAAAT ACCTACTGGA TTAATTTATG GCAATAAAAT TTTTTTTTGT CTTTTTCAGT 180
TTTATCAAA 189

SEQ ID NO:1653

SEQUENCE LENGTH:174

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01868

SEQUENCE DESCRIPTION:

GATCTCTGCT CTGCCCTCTC CCAGATTGGT GGGGAGGGAG GGCAGGAGGT AGATATAGGC 60
CTGTCCTTTT TAGCAATGTG ATTCTTGTG TTGATTCTCT CTCTGGAGTT CATGTGCTGC 120
CTCANNNGAC TCTGATTTTA TATTNAGAA AAATAAAGGC GTTCAATCTG CAAA 174

SEQ ID NO:1654

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01869

SEQUENCE DESCRIPTION:

GATCAGGCTC ATCTCATCTG CACCAACTGC TCTACCTGTT AGATGGAGAC CTGCGTCAT 60
 GAATTTCTCG AAATGCTCCT GGAACCTATT TATATGCCTC AAAATCCTCT AAACCTATT 120
 ATAGTAACCC ATAGTTTTAA TTTTATAAAT AAACGTATTT ATTAAATCTT AAA 173

SEQ ID NO:1655

SEQUENCE LENGTH:172

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01870

SEQUENCE DESCRIPTION:

GATCTCTAAT TTAAAGAAAC AGTTTTTATA TACCTAGAAT GAAGATTCTG TTAAAGCGG 60
 TTTTGGTTAA CTGGTTCTT GACATTTGCC TAAATNTTN TTGGATTGGG ACTAAATGT 120
 NCTATTAGCC AATGAATAAC GTCCAAGTAA ATTTNTGTTT TATTTGGGA AA 172

SEQ ID NO:1656

SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01871

SEQUENCE DESCRIPTION:

GATCTCAAAG GAGTCTGAAA TATCATATTT CTGTGTGTGT CTCTCTCAGC CCCTGCCCAG 60
 GCTAGAGGGA AACAGTACT GATAATCGAA AACTGCTGTT TGTGGCAGGA ACCCTGGCT 120
 GTGCAATAA ATGGGGCTGA GGCCCTGTG TGATATTGAA AGGTAAGAA A 171

SEQ ID NO:1657

SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01872

SEQUENCE DESCRIPTION:

GATCGNCATT ATCCCCAGNA AAAAGCTCCG CAACAAGATA GCAGNTAATG TCACGCATCT 60
 GATGAAGCGA ATTCAGAGAG GCCCAGTAAG AGGTATCTCC ATCAAGCTGA NCGAGGAGGA 120
 GAGAGAAAG AGAGACAATT ATGTTCTGA GGTCTCAGCC TTGNNCCNN N 171

SEQ ID NO:1658

SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01873

SEQUENCE DESCRIPTION:

GATCAAAGAC ATCCTCATCC AGTATGACCG GACCNCTGG TAGCTGACCC TCGTCGNTGC 60
 GAGTCCAAA AGTTNGGAGT CCTGTGCCCC AGTTCGTACC AGAATCCACC GTAAGCCATC 120
 GGNCTAAAAC TTACTTNATA ATAACAGTTT TGAGGGATT AAAAGTTCAA A 171

SEQ ID NO:1659

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01874

SEQUENCE DESCRIPTION:

GATCAAAAAT CCAAGGAGAA TGGTGCCAGT GTATGATAAA ATCCATGTAG TGATGAGGAA 60
TGGTGTTAAA TAATGTAATA TATAANANTC ATGATATANG ANTGTTTGAA GGTGATGCAT 120
GTTTGATTTT NGTAGTATAA NTGTATTNA GTTCAAATGA TGTATAANGN 170

SEQ ID NO:1660

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01875

SEQUENCE DESCRIPTION:

GATCCTCGCT CCGTTGCACG GGCGCCNTAA GTTATTGGAC TATCTAATAT CTATGTATTT 60
ATNTCGCTGG TTCTTTGTAG TCACATATTT AATAGTCTTA ATATCTTGTT TTTGCATCAC 120
TGTGCCCAT GCAAATAAAT CACTTGCCA GTTGCTTTT CTACAAA 167

SEQ ID NO:1661

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01876

SEQUENCE DESCRIPTION:

GATCTGGGCG ATTCTGAAGC CATGCCATTT TTAACCTTAT GTCTGCTAGA AAGTGTGTA 60
GTTGATTGAC CAAACCAGTT CATAAGGGGA ATTTTTTTTA AAAACAACA AAAAAAAAC 120
CATCCAAGN NGGGTTTNTG ATTAATTTT GTGGNGTTAC CAGTAAA 167

SEQ ID NO:1662

SEQUENCE LENGTH:165

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01877

SEQUENCE DESCRIPTION:

GATCTTCCCC AAGAGGGA CT GGGGTTTCTG GGGTCCATTC TCTGAGTCAG TGGTTATTG 60
AAAATTGAT TTTGATTTTA TTTTCTCT GTAACTTCC AAGCTGGCTT TTCCCATTC 120
AATTCCTGTG ATTTATGCCA ATAAAGTTG CCCATGATT TCAAA 165

SEQ ID NO:1663

SEQUENCE LENGTH:165

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01878

SEQUENCE DESCRIPTION:

GATCCCTNCC TTGGTGGGCA GTTCTGCCTT CCAAGGAAGA AGGGGAAGAA AAGGACCTGT 60
GGGTGGCTCA GGNCNAAGCA GACCCCGGGC TCCACCCAG CCCCNCAG GNTGCTGCCA 120
GTNCACACTT TTACAAATT AATATAAAGC AAGTCCAGTN TAAA 165

SEQ ID NO:1664
SEQUENCE LENGTH:161
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS01880

SEQUENCE DESCRIPTION:

GATCAGGCTG CTGAGGGAAT AAATTTAATC AAGGTCTTTG CAAAAACAGA AGCACAGAAG 60
GGAGCCTATA TAGAACTAAC ACTGCAGACT TATCAAGAAG CACTCAGTCG CCATTCTGCA 120
GCTTCCTAAA AATATTTTAA AAATACATTT ATTTTACTAA A 161

SEQ ID NO:1665
SEQUENCE LENGTH:158
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS01881

SEQUENCE DESCRIPTION:

GATCAGTCCA TCCCAGAGGG ACCGGAGTTA TGACAAGCTT TCCAAATATT TTGCTTTATC 60
AGCCGATATC AACACTTGTA TCTGGCCTCT GTGCCCCAGC AGTGCCTTGT GCAATGTGAA 120
TGTGCGCGTC TCTGCTAAAC CACCATTFTA TTGGAAA 158

SEQ ID NO:1666
SEQUENCE LENGTH:158
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS01882

SEQUENCE DESCRIPTION:

GATCGTGTAT TGAGATTCTT TAAATAATGC TTCAGATATT ATTGCTTIAT TGCTTTTTTG 60
TATTGGTTAA AACTGTACAT TAAAAATTGC TATGTTACTA TTTTNTACAA TTAATAGTTT 120
GTCTATTTTA AAATAAATTA GTTGTTAAGA GTCTTAAA 158

SEQ ID NO:1667
SEQUENCE LENGTH:155
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS01883

SEQUENCE DESCRIPTION:

GATCTTTGTT AGTTGCATAT TATATTTCAG TGTTTATCTT CTTGGTGAAT TGACCCTTTT 60
ATCATTATGT AATCCCTTA TATTATATC TTTATATTTA ANATAGGTTT CCTTAACATT 120
TGAGAAGTAA AANTAAAATA AAATGTAATA GCAA 155

SEQ ID NO:1668

SEQUENCE LENGTH:155

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01884

SEQUENCE DESCRIPTION:

GATCACTCTG GGCTCACTTG CCTGCCTAAT GGTCATCTCC CCAGTAGACT GTAAGCTCCT 60
 TGAGGGCAAG GATTGTGTTG GAATTTTGT ATTAACAGTG CCTGGCTTGG TGCCTGGCAC 120
 CTAGAAAGCA CTCAATAAAT GTTGTTTAA TGAAG 155

SEQ ID NO:1669

SEQUENCE LENGTH:161

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01885

SEQUENCE DESCRIPTION:

GATCAGATGC TTGAAATTTA ACACTTTTCA CTTGGTTCTT ATACTGAATG CCGACTCTGC 60
 TCTGTGTTAG AGATATGAAA TGGTGTTTGA TACTGTTTGA GACATTATGG AGAGATTTAA 120
 TTATTTGTAA TAAANGNTTT GCTGCAGTCT GAAAACTGAA A 161

SEQ ID NO:1670

SEQUENCE LENGTH:153

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01886

SEQUENCE DESCRIPTION:

GATCTATTGT AATGTGTTAT TTNGGCTGAN GTATGTNAAG AAAATACTAC CTTACAAAGN 60
 TATGTATTNT CAAAAGGAAA TACATATCAG AAAGTTTAAC AGGGCCAGTG GGTGATACTG 120
 AAGTTGTCGG GATGGATGGT GTCTATCTGG NNN 153

SEQ ID NO:1671

SEQUENCE LENGTH:444

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01887

SEQUENCE DESCRIPTION:

GATCTAGAAG TTTTACTTTT ATAAAGATGG TGTCCGGAAG ATGTTGCTAA TGTATTTTAC 60
 TTCAACATAG GGAACAAACT TTTTAAGTAT ATTAATAAAC CTGTATGGTT AGTTTTTAAC 120
 AGTTTTTTAA AATAAACTAT GGATATGACA AATATTCTGT GTTTTACTAA GTGCTTGGAT 180
 AGGCTTTCTA ATTTNGTATA CGTGCTAGAG TTAATTATTG ANCATTTTAA TCCAAATTAA 240
 GTTGTAACCT TGTTTATACT ACTGATTGCT CATTCTTTAA AATGATATTN TNNNGTAAAA 300
 GTCATAACCA ACATATGANC AGACAGATTT ATGTCTTTAA ACACAGATTG TNAGCTATAG 360
 GTTTAATCTG ATACCAGTTG CTGGAAGGTT GCCATTTGGT TTTTCTNAAA ACCTATACCN 420
 CTAAAACTTT CTTTNAAGGT TAAA 444

SEQ ID NO:1672

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01888

SEQUENCE DESCRIPTION:

GATCAGCAGC CCTCGCAATG TGCTCAGCGA GTACCAGCAG AGGCCCGCAG GGCTGGTGAG 60
CTACTTCATC AAGAAGAACT GAGCAAGGCC TGAGCGCTGC CTGAACTCCG AAGNCCTGTG 120
TGATGCTTTC CATTAAAAAN NATTTGCCAA A 151

SEQ ID NO:1673

SEQUENCE LENGTH:150

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01889

SEQUENCE DESCRIPTION:

GATCCAGATG ATAAACCAGT GAACTATGTC AAAAGCACTC TCAATATTAC ATTTGACAAA 60
AAGTTTTGTA CTTTNCACAT AGCTTGTTCG CCCGTAAAAG GGTTAACAGC ACAATTTTTT 120
AAAAATAAAT TAAGANGTAT TTATNGGAAA 150

SEQ ID NO:1674

SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01890

SEQUENCE DESCRIPTION:

GATCCGNC CG TCTCTGCCTT CCAAAGTGCT GGGATTACAG GCGTGAGCAC ATCTGCCCGG 60
CTTATTTTTT TTTATGTTTT TNCCTCGTAA GAGGTTCTGT TGAGCAGTGA TTTGCAACTC 120
TTGCTGACGT TGCTGGGGAA GCTTTAAA 148

SEQ ID NO:1675

SEQUENCE LENGTH:568

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01891

SEQUENCE DESCRIPTION:

GATCTACCCC AGGGAGAATC TGAGACATCT TGCCTACTTT TCTTTATTAG CTTTCTCCTC 60
ATTCAATTCT TTTATACCTT TCCTTTTGG GGAGTTGTTA TGCCATGATT TTTGGTATTT 120
ATGTAAAAGG ATTATTACTA ATTCTATTTT TCTATGTTTA TTCTAGTTAA GGAAATGTTG 180
AGGGCAAGCC ACCAAATTAC CTAGGCTGAG GTTAGAGAGA TTGGCCAGCA AAAACTGTGG 240
GAAGATGAAC TTTGTCATTA TGATTCATT ATCACATGAT TATAGAAGGC TGTCTTAGTG 300
CAAAAAACAT ACTTACATTT CAGACATATC CAAAGGGAAT ACTCACATTT TGTTAAGAAG 360
TTGAACTATG ACTGGAGTAA ACCATGTATT CCCTTATCTT TTAATTTTTT TCTGTGACAT 420
TTATGGTCTC ATGTAATTTG CATTACTCTG GTGGATTGTN CTAGTACTGT ATTGGGCTTC 480
TCGGTAATAG GTTATTTCCA TATACTATAA TTGGNAATAT TTTTGTACCA ATGGTTATAA 540
CNCTAGGGGT NTAAAAACCA GGTCTGTN 568

EP 0 679 716 A1

SEQ ID NO:1676

SEQUENCE LENGTH:146

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01892

SEQUENCE DESCRIPTION:

GATCTCTAAG GTATTATGTT TGCCTTCTCT TAGTTATTTT TGGGTTGTCA CAAAGCTCAG 60
TATCATGGTT TGACAGAAGC AGTTATGTGA ACTTTTATGT TAGGACATTA CTAAATAAAG 120
AATTCCTTAG CTGCTTATAA AGTAAA 146

SEQ ID NO:1677

SEQUENCE LENGTH:144

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01893

SEQUENCE DESCRIPTION:

GATCCATTCT CCNTTANTT CCCCCACCCT CCTCTCTNGG ATATGGTTGG NTTTGGCTCA 60
TTTCACAATC AGCCCAAGGC TGGGAAAGCT GGAATGGGAT GGAACCCCT CCGCCGTGCA 120
TCTNAATTN AGGGGTCATG CNCN 144

SEQ ID NO:1678

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01895

SEQUENCE DESCRIPTION:

GATCGAGATG AGCTTTAAAA ACTTGAAAAA CAGTTTGTA GCGTTTCAAC AGCAGCATCA 60
ACCTACGTGG TGGAAATAGT AAACCTATAT TTTCATAATT CTATGTGTAT TTTTATTTTG 120
AATAAACAGA AAGAAATTTT GGGTTTTTAA A 151

SEQ ID NO:1679

SEQUENCE LENGTH:140

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01896

SEQUENCE DESCRIPTION:

GATCTTGATG GTCGCTGCAG AGTAACTTCA GCGCTGAGTT CGTTTGAAAC CTCGGTTTG 60
TTAAGATTCA GAATAACAA TTGCTTTGTC TGTTAAATCT CCCGATTCT GTTAGGAAAA 120
TAAAAGCCTC ATTTCTTAAA 140

SEQ ID NO:1680

SEQUENCE LENGTH:139

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01897

SEQUENCE DESCRIPTION:

GATCACTATG TAGGCAATGC TGGATACTGG NCTGTTATTT ACACATTGT ATCACCTTTT 60
 ATTCATAAG ATAGCATTGT CAGANTAATT TAGTATTCA ACATAATCAA CAAGTAAAT 120
 AAAATTAATG AGAATGAAA 139

SEQ ID NO:1681

SEQUENCE LENGTH:139

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01898

SEQUENCE DESCRIPTION:

GATCTCCACA TTCAGGTTTC CTGATGCACT TTNCGACTCT TTGGGCAACC TCTGGACTCC 60
 TTGTNCCCAG GGTCCACATT TAGTTTTATC TTTACTGCAT TGCTTTTATG AAAAAGAATA 120
 AAATTGGATG AAACAGAAA 139

SEQ ID NO:1682

SEQUENCE LENGTH:143

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01899

SEQUENCE DESCRIPTION:

GATCAGTTAA TTTGTATGTA GCAGTGTATG CTCTCATATA CAATNACTGA CCTATGCTCT 60
 AAAACATGAA TGCTTTGTTA CAGACCCAAG CTGTCCATT CTGTGATGGG TTTTGAATAA 120
 AGTATCCCT GTCTAAATG AAA 143

SEQ ID NO:1683

SEQUENCE LENGTH:136

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01900

SEQUENCE DESCRIPTION:

GATCGAATCA CCTGAATGTT CTATGTANTG TAAAATATTC TTTTCTTGCT TTCTTGTT 60
 AAGGTATATA TTCTATTTGT ATGGAATTCT TATTCAAATA CAGTTCTATT AAAGAGTATA 120
 CTCCTATTGG ATGAAA 136

SEQ ID NO:1684

SEQUENCE LENGTH:136

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01901

SEQUENCE DESCRIPTION:

GATCTCAGCG GCATTAAAGCT GTGCCTGAGC GAGTTTGTAG TGACTCACTG CACAGCACCN 60
 CCAGACTAGC ATGTGGTTCT ATATTTGTAA AGTTATTGGG ATAAGAAACA ATTAACAGT 120
 TTGTAGTAAA CACAAA 136

SEQ ID NO:1685

SEQUENCE LENGTH:136

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01902

SEQUENCE DESCRIPTION:

GATCTTCTAC TTCCCTNTGG GGAGGGGAGT GACAGGTCCA CACACCACAC TGGGTCACCC 60
TGTCTGGAT GCCTCTGAAG AGAGGGACAG ACCGTCAGAA ACTGGAGAGT TTCTATTAAA 120
GGTCATTAA ACCAAA 136

SEQ ID NO:1686

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01903

SEQUENCE DESCRIPTION:

GATCTTTAAA AAAATTTTCC ATATGTCAAA GTGTAGAGAT GTTCTAGCA GCATTATCT 60
TGTCTCTAT AGATTGAACA AAAAGTGGTA GCTGTNAAAT TGTGATTAT AATAAATACA 120
TATTGGTCT TCAAA 135

SEQ ID NO:1687

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01904

SEQUENCE DESCRIPTION:

GATCAGCAGT TCCAGCCCT ACGCTNGCTG GGGGCGCAAC CACCCCTTCC TTAGGTTGAT 60
GTGCTTGNA AAGCTCCCTC CCCCTCCTC CCAAGAGAG GAAATAAAG CCACCTTCGC 120
CCTAGGGCCA AGAAA 135

SEQ ID NO:1688

SEQUENCE LENGTH:136

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01905

SEQUENCE DESCRIPTION:

GATCTTCATC TGTAGCCAAG AAGAGAGCAT TAAACCCAAG ANCATTGTGG AGAAGATTGA 60
CTTTGACAGT GTGTCCAGCA TCATGGCCTC CTCCAGTAA CTTCAGGTGT TTAATAAAGA 120
TGTGTTGACT CAGAAA 136

SEQ ID NO:1689

SEQUENCE LENGTH:134

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01906

SEQUENCE DESCRIPTION:

5 GATCTTAATG TTTCAAAGGA GTGCAGCCCT TCACAGCCAT CAGATATGAG GGCAGTGTTC 60
 TGTCTGGTGT TGTAGCCATC TCAAGAACAA ATCAACAGCA ACAAAGAGA AAGAATAAAT 120
 TTTTAAATT TAAA 134

SEQ ID NO:1690

SEQUENCE LENGTH:134

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01907

SEQUENCE DESCRIPTION:

10
 15 GATCTGTGAC CTTGGGCGCT GAAATGGGA CCCAGGAATC CCCCCGTCA ATATCTTGGC 60
 CTCAGATGGC TCCCCAAGGT CATTCAATC TCGGTTTGAG CTCATATCTT ATAATAACAC 120
 AAAGTAGCCA CAAA 134

SEQ ID NO:1691

SEQUENCE LENGTH:134

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01908

SEQUENCE DESCRIPTION:

20
 25 GATCTCTACT ACCACAAGGA AATAGTTTA GGAGAAACCA GCTTTTACTG TTTTNAAAA 60
 ATTACAGCTT CACCCTGTCA AGTTAACAAG GAATGCCTGT GCCAATAAAA GGTTCCTCCA 120
 ACTTGAAGTC TAAA 134

SEQ ID NO:1692

SEQUENCE LENGTH:140

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01909

SEQUENCE DESCRIPTION:

30
 35 GATCAGTGTG GAGGACCCGC CCCAGCGCAC GGCCGGCGTC AAGGTGGAGA CCACTGAGGA 60
 CCTGGTGGCC AAGCTGAAGG AGATTGGGCG GATTGAGCC CCTCCAGAG ATGGCAATAA 120
 AACTGACTCT CAACATCAAA 140

SEQ ID NO:1693

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01910

SEQUENCE DESCRIPTION:

40
 45 GATCTAACCT TTGANGCTTT AAAAAAGGAG AAAGAGGGTA GGGGTGGGAA ACTGGCATACT 60
 TGTGTGTATA GCACTGCCGA TTGGCTAGGC CACTGTGTCT CTGCTACAAA TTAAAGAAAT 120
 CCTAAAAGTT AAA 133

SEQ ID NO:1694

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01911

SEQUENCE DESCRIPTION:

GATCGCGAAT AAAAATCAAC AAATGTGAAA GCCCAGAAAA ATATATTCGT ATTCTGGTT 60
TTGCTGGATT TTTACATTTT TATATAATAA AAATGNTATT TTGAAATAAA GATTATGCTG 120
ACTCAAATGC AAA 133

SEQ ID NO:1695

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01912

SEQUENCE DESCRIPTION:

GATCTATTGC AGATATTGA TGTAGTTTC TCTTTAAAT TAATCAGAAA CCCCACTTCC 60
ATTGTATTGT CTGACACATG CTCTCAATAT ATAATAAATG GGAAATGTCG ATTTCAATA 120
ATAGACTTAA A 131

SEQ ID NO:1696

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01913

SEQUENCE DESCRIPTION:

GATCCGCCCC GCTCAGCAGA ATTCAGGCTC CTGTATGCCT CAGCCCCCTCG ATATAACTCC 60
ATCGGATTCT AGCAGCCTGG TATTCTAGCA ATAAAACCCA AGGCCTGAGA AACAGGGGCC 120
ATCCTGCAAA 130

SEQ ID NO:1697

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01914

SEQUENCE DESCRIPTION:

GATCAGACTG TCACTTATA GTTTTCTAT ATAAAGATTA TATAGTTGCA AACAAAGGTT 60
GTGAAATTTC CCTTTTGTG TTTTINACTT TTAATTAATA AAAGTACATT GTTTCATAG 120
CAAACCTAAA 130

SEQ ID NO:1698

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01915

SEQUENCE DESCRIPTION:

GATCGAAGCT ACCGTAATGT GTTCTTGAGG TCAACATGTT TTGTGGAAGT CACTGTATTT 60
GCCCCNTTAT GTCAATTACC TATTATAAAC CGAGAGAAAT GGGAAAATTA AAAACCTGTT 120
TTGAATTAAA 130

SEQ ID NO:1699

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01916

SEQUENCE DESCRIPTION:

GATCCCTTGT AAACATGAAA TCATTCCATG GATGGCTGCC TTATAATTTT GTCTCTTTCC 60
ACTTTAATTG TGAATGGTTA AAAAAATGCT GTTTCTGAT ATTAATTTT TATTAGTGCA 120
TACCTTAAA 129

SEQ ID NO:1700

SEQUENCE LENGTH:82

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01917

SEQUENCE DESCRIPTION:

GATCTGTACC TAGTACCCCT CCCATCTACT GATTGTTTG TTTTGTAAAC CAAACACATT 60
TTCAGATAGA AGGAGCCTTA AA 82

SEQ ID NO:1701

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01918

SEQUENCE DESCRIPTION:

GATCCCCTAT TCCTCCACA ATAACAGAAA CACTCCCAGG GACTCTGGGG AGAGGCTGAG 60
GACAAATACC TGCTGTCACT CCAGAGGACA TTTTTTTTAG CAATAAAATT GAGTGTCAAC 120
TATTTAAA 128

SEQ ID NO:1702

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01919

SEQUENCE DESCRIPTION:

GATCTACAAT NAAGCCCTCA AGGCTGAAA ATAAATAGGG AAGATGGAGA CACCCTCTGG 60
GGGTCCTCTC TGAGTCAAAT CCAGTGGTGG GTAATTGTAC AATAAATTTT TTTGGTCAA 120
ATTTAAAAAA AAATAAA 137

SEQ ID NO:1703
 SEQUENCE LENGTH:128
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01920
 SEQUENCE DESCRIPTION:
 GATCTGAGGA GGAAATGTGA CGCCGGACGC TTCNTGTNT TTGACCTTTT NAAAGGANGA 60
 GGAAGTTCAC CGACANTACC CATCACCCAC AAAAGTCTCA CTTCTTGAA GATTGTGTT 120
 AGGCTGNN 128

SEQ ID NO:1704
 SEQUENCE LENGTH:127
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01921
 SEQUENCE DESCRIPTION:
 GATCTGGCGT NCTACTATGA GGCTTCTTTT GACCTCATTN NTGTGGTNGC CGGCGTAGCC 60
 AGACCATCCT ATACTGTGAC TACTTCTACT NGTACATTAC AAAAGTACTC AAGGGAAAGA 120
 AGCTCNN 127

SEQ ID NO:1705
 SEQUENCE LENGTH:146
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01922
 SEQUENCE DESCRIPTION:
 GATCATAGCT AACTGTATG TTTAGGTGGT GTGAAATNAT TTATAATCAC AGCTTGAAC 60
 GTGTTTGCTT GGTACTGTCA TAGTGATTAC AAATTCATG GAATGCGAAG AGCAACAATA 120
 AATAAAAAAT ACCACTCACC CTCAAA 146

SEQ ID NO:1706
 SEQUENCE LENGTH:240
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS01923
 SEQUENCE DESCRIPTION:
 GATCAAAAAG GACTGAACCC CCACTATCAT AATCCATACA TTCATTCCA TGTTGTTTGA 60
 CTAGCAGTGC ATATATGAAT GAATATGGTA ATTAATCTTA CCTATAAGAA CCAAATACTT 120
 TAATTATATT AAGATAGTGA ATAAAGATGT ATAATATTTT NATTAATACC TTGAATATAT 180
 TCAGTGGATT GAATGTGACT TCATAACTGT ACTACGATTG TATTAATAAATA TTTCTGGAAA 240

SEQ ID NO:1707
 SEQUENCE LENGTH:124
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS01924

SEQUENCE DESCRIPTION:

5 GATCTTATGA AGGAAGATT GTGACCCTAC GTATATATAT ACACACACAT ACATATATAT 60
ATATATCCCG AACCAACANC GGGACTTTGT TTATATTGCA AATAAATATT ATTTTCCTT 120
TAAA 124

SEQ ID NO:1708

SEQUENCE LENGTH:124

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01925

SEQUENCE DESCRIPTION:

10
15 GATCCCTTT CTCTATGTCG GGACACTCAT TAGCAAGAAC TTNCTGCTC TACTNGAGGN 60
ACATGACATT TTTGTCCAG AGGATGATGA TGATGATGAC TAACAGGAAT TACAGAANGN 120
NGAN 124

SEQ ID NO:1709

SEQUENCE LENGTH:146

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01926

SEQUENCE DESCRIPTION:

20
25 GATCCGAGCA GTCCTCTGCC CGCCTCCCGT GAAGAAGAGG AAGAGAAAAT GCCTGCTGTT 60
GTAAATGTCT CAGCCCTCTG TTCTTGCTCC TGCCCTTGG AACCTTTGTA CGCTTTGCTC 120
AAAAAAAAAC AAAAAAAAAA AACAAA 146

SEQ ID NO:1710

SEQUENCE LENGTH:120

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01927

SEQUENCE DESCRIPTION:

30
35 GATCCTGTGT AGAAGCTGTT CTCATTAAAC ACCAAACAGT TAAGTCCATT CTCTGGTACT 60
AGCTACAAAT TCGGTTTCAT ATTCTACTTA ACAATTTAAA TAACTGAAA TATTCTAAA 120

SEQ ID NO:1711

SEQUENCE LENGTH:121

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01928

SEQUENCE DESCRIPTION:

40
45 GATCTGCGCC TCTCAGTGCC TTTTGAGGGG TTCCCATCAT CCCTCCCTGA TATTGTATTG 60
AAAATATTAT GCACACTGTT CATGCTTCTA CTAATCAATA AACGCTTTAT TTAAGCCAA 120
A 121

SEQ ID NO:1712

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01929

SEQUENCE DESCRIPTION:

GATCGGGGCA AGAGAAGGCT GAGTACGGAT GGGAACTAT TGTGCACAAG TCTTCCAGA 60
GGAGTTTCTT AATNAGATAT TTGTATTTAT TTCCAGACCA ATAAATTGT AACTTTGCAG 120
CGAAA 125

SEQ ID NO:1713

SEQUENCE LENGTH:338

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01930

SEQUENCE DESCRIPTION:

GATCAGCCCA TCTCAGCTTG CTGTTTCAAT CACAATGGAA ACATATTTC ATACGCTTCC 60
AGCTACGACT GGTCAAAGGG ACATGAATTT NATAATCCCC AGAAAAAAN TTACATTTC 120
CTGCGTAATG CAGCCGAAGA GCTAAAGCCC AGGAATAAGA AGTAGTGGCT GGAGACTCTG 180
GCTCAGCCAG AGTTGTTTCT CTCCANTCTG CCTCATCTCT GTACGANTTT GGGTCCCAGC 240
CTTGTGGGT TGTCAAGCAT GGACATGGAT TTCAACCCCT GGAGAAAACG NTGTCATTGT 300
TCAGCAGCTG AGNGCCCCAG GCGTCCGNGG CGNCTTTN 338

SEQ ID NO:1714

SEQUENCE LENGTH:85

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01931

SEQUENCE DESCRIPTION:

GATCCCATAT CTATTACCGT GTCCATAGGA ATAATAGGTA AGGGCTCTGT CTCTGTCAAG 60
CCATGTAACA AAGGACACTG TTAAG 85

SEQ ID NO:1715

SEQUENCE LENGTH:260

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01932

SEQUENCE DESCRIPTION:

GATCCAGCCC TGGTTCTGGC TGTGGTCAGC AGATGCCAGT NAAGGGTTTT GTGTGTTTAG 60
GCCTCATTTC TTTGTCTTTT TCCTACTCCG TTCTGGCAT TTGCTGATT CTAGTGATA 120
CTCTGTAGTC TCAGTTCGTG TTGATTCCA TTCCATGGAA ATAAAAAGTA TGTGTACAT 180
ACTGCCGAAG AATTGTCTTG CAAGTNAAGG CTTCCCCCTT TACTATAAGA CTATAAATAA 240
AANCTTATTT NATCCNMAAA 260

SEQ ID NO:1716

SEQUENCE LENGTH:430

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01933

SEQUENCE DESCRIPTION:

GATCTTGTGC TGTGCTATCC GCAGAACCGC GAGATGGTCT AGAGTCAGCT TACATCCCTG 60
 AGCAGGAAAG TTTACCCATG AAGATTGGTG GGATTTTGTG TTTGTTTGTG TTGNTTTGTT 120
 TGTGTTTGTG TGTGTTGTTT TTTGCCACTA ATTTTAGTAT TCATTCTGCA TTGCTAGATA 180
 AAAGCTGAAG TTACTTTATG TTTGTCTTTT AATGCTTCAT TCAATATTGA CATTGTAGT 240
 TGAGCGGGGG GTTTGGTTTG CTTGGTTTA TATTTTNCA GTTGTGTTGTT TTTGCTTGTN 300
 ATATTAAGCA GAAATCCTGC AATGAAAGGT ACTATATTG CTAGACTCTA GACAAGATAT 360
 TGTACATAAA AGAATTTTTT TGNCTTTAAA TAGATACAAA TGTCTANCAC CTTTAATCAA 420
 GTTGTAACCTN 430

SEQ ID NO:1717

SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01934

SEQUENCE DESCRIPTION:

GATCGAGCCA CTGCGCTCCG GCCTGGGTGA CAGGAGACTC CATCTCAAAA AATAAAATTA 60
 AAAAAAAAC TACTACAATA AATTATCACC TTGGACTGTA TAAACAAC TTNAAACTAG 120
 TCTTTTNA AAGTACACTT AAATAAAAT CTAANCATAA GNGANTGTAA A 171

SEQ ID NO:1718

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01935

SEQUENCE DESCRIPTION:

GATCGCTCAG AAAATGGGAA CCCAGGGCAA ATTGTATGTG CTCCTTACTG GGTGTTATTAT 60
 AAGTGTACACA TGTTTTTTAT AATAAACAT AGGTGATTTC ACCTTAATGG ACAA 115

SEQ ID NO:1719

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01936

SEQUENCE DESCRIPTION:

GATCCTCCA CCTCAGCCTC CTGAGTAGCT GGGACCATAG GCTCACAACA CCACACCTGG 60
 CAAATTTGAT TTTTTTTTTT TTTCCAGAGA NGGGGNTTG NANCATTGCC CAGNN 115

SEQ ID NO:1720

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01937

SEQUENCE DESCRIPTION:

5 GATCTAGCAC TTTACAAAGT AAGTTTTTCT GTNACTTAGA GCTGAAAATA AAAGCAATGT 60
AGAGTTACGC TTTTATAAGT ATTTNANGTT TCANAAATNA TGCATACAGC AATTN 115

SEQ ID NO:1721

10 SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01938

SEQUENCE DESCRIPTION:

15 GATCATTAG TTCTATCTAT TTAGAAATAT GTAAACTGG ATTTTTTTTT AAGTAATATG 60
TGACCAAAGT TAATTTTGTG CCAAAGGTCT AAATAAGAG CAGTTTCCCA TAAA 114

SEQ ID NO:1722

20 SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01939

SEQUENCE DESCRIPTION:

25 GATCGCCACA GCCCTTCTTG GAAGAAAGGC GTCTGTGTTT CAGGTTCCAC GCGAGTCACC 60
TCTTCGTCT TAATGTTTAC CGTCCACAGC TTTGGAATAA ACCATCCTGG GAAGTTAAA 119

SEQ ID NO:1723

30 SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01940

SEQUENCE DESCRIPTION:

35 GATCTTTGAC TGTATCATGC ATTGTACAAT TGATTTCATA TTTTATGAAA TGCCTTAATT 60
TTCCTACTAT AACATAAAGA CAATGATGAA TAAAGTTTAT GTGTATGATT AAA 113

SEQ ID NO:1724

40 SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01941

SEQUENCE DESCRIPTION:

45 GATCAGAAAC ATACATACCC TNCCTAGGGA TTAGAAAGT GGGTTGGCAG TCTTTCCTCA 60
CGTCCATCAC GCANTTGGNA CCTACTNCAG TGTATTGTAA ACTTTTTTCT CNN 113

SEQ ID NO:1725

50 SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS01943

SEQUENCE DESCRIPTION:

5 GATCCCAGAG GTCANGACCA AANCCAATCA GTGAAAATTC AACTNTAGCT GTGAAAACAT 60
TGCATAACA GGAGCTATCC AACAAATGGAC CAGAATGTTG ACAATAAAGT N 111

SEQ ID NO:1726

SEQUENCE LENGTH:113

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01944

SEQUENCE DESCRIPTION:

15 GATCCCGCAG GTGGCACGTG ACAGCTAGGG TTCAAAACGT TCTCACCAA TCCAATGCTC 60
CTCATATATT AATTTTATAA CCAGACAAAT AAATATTAGA GACAACCACC AAA 113

SEQ ID NO:1727

SEQUENCE LENGTH:109

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01945

SEQUENCE DESCRIPTION:

25 GATCTCAAAA TTCCAGAATT CCCTGTACAT CTNTCCACGT GCTTGTGCTC CAGGTGTGAC 60
TTGTAAACTG TCTAGTGTTT GCNTTAAATA AAATGGCACC GAGCATAAA 109

SEQ ID NO:1728

SEQUENCE LENGTH:329

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01946

SEQUENCE DESCRIPTION:

35 GATCCGTATC GGTTTAAGAA GCGGACGGAG CTGTTTCATTG CCGCCGAGGG CATTACACG 60
GGCCAGTTTG TGTATTGCGG CAAGAAGGCC CAGCTCAACA TTGGCAATTT GCTCCCTGTG 120
GGCACCATGC CTGAGGGTAC AATCGTGTGC TGCCTGGAGG AGAAGCCTGG AGACCGTGGN 180
AAGCTGGCCC GGGCATCAGG GAACTATGCC ACCGTTATCT CCNACAACCC TGAGACCANG 240
ANGACCCGTG TGNAGNTGCC CTCCGANTCC AAGANGGTTA TNTCCTNAGN CATCAGNGCT 300
40 GTGGTTGGTG TGGTGGCTGG NGNTNGNCN 329

SEQ ID NO:1729

SEQUENCE LENGTH:109

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01947

SEQUENCE DESCRIPTION:

50 GATCTGTCAA TTTCTTTGTN CAGAATGATT TGAAGTATTG TATTCAGTTT ACATGCATTA 60
TTGNTTATA ATNAATATCT AATGAAATA CATGTTGTTA TATTGTAAA 109

55

SEQ ID NO:1730

SEQUENCE LENGTH:215

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01948

SEQUENCE DESCRIPTION:

GATCAGCTGA TGGAGCTCCT GATTTGACAA AGGAGCTTNC CTCCTTTGAA TGACCTAGAG 60
CACAGGGAGG AACTTGTCCA GTAGTTTGA ATTGTGTTCT TCGTAAAGAC TGAGGCAAGC 120
AAGTGCTGTG AAATAACATC ATCTTAGTCC CTTGGTGTGT GGGNNNTTGG TTTTTTTTTT 180
ATATTTTGAG AATAAACTT CATATAAAAT TGAAA 215

SEQ ID NO:1731

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01949

SEQUENCE DESCRIPTION:

GATCGCACC G CCCCTGCGAG AGAGTGTATC ANCTGTTTTA TTTTGTAAA AACAAAGTGC 60
TAAATAATAT TNATNACTTG GTTTGGTTNC AAAANCGGAT TAAATGN 107

SEQ ID NO:1732

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01950

SEQUENCE DESCRIPTION:

GATCACTGTG GTNTTCATAT TTCTAAAATA AATGAATTAA AAANTTTAAN GNCTTAGATG 60
CTTATCTCTA TCATAGCTCA GAATGCAACT NCAATACCCC CATTCTN 107

SEQ ID NO:1733

SEQUENCE LENGTH:106

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01951

SEQUENCE DESCRIPTION:

GATCAACTGT ACGCCTTTGG TATCTGACCA TAAAGTCTTT TGCTCCGCTG ACATTTGGGT 60
GATGTCTTCA CATGGAAATA TAATAAAAT AAAATCTAG TTAAAA 106

SEQ ID NO:1734

SEQUENCE LENGTH:106

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS01952

SEQUENCE DESCRIPTION:

GATCGAGGCT TCAGTGAGAT ATGGCTGAGA CACTGCTCTC AGCCTGGATG ACAGAGTGAG 60
AACCTGTCTC AAACAAGAGA AAAAAATAAA TCAAANNCTA TTCAAA 106

5 SEQ ID NO:1735

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10 CLONE:HUMGS01953

SEQUENCE DESCRIPTION:

GATCTGAGGA GGCTTCGTGG GCTTTTGGGT CCTCTAACTA GGACTCCCTC ATTCCTAGAA 60

ATTTAACCTT AATGAAATCC CTAATAAAAC TCAGTGCTGT GTTATTTGTG CCTCATTTC 120

CCAGGAATAG TCACTGCCTT GAGGAACCAA A 151

15 SEQ ID NO:1736

SEQUENCE LENGTH:106

SEQUENCE TYPE:nucleic acid

20 TOPOLOGY:linear

CLONE:HUMGS01954

SEQUENCE DESCRIPTION:

GATCCACCCA CCTNAGGCCT CCCAAAGTGC TGGGANNACA GNCGTGANAA CCACGGCTTC 60

GCCAACAATG GATTTTAAA TTATTCCAC GTCACAAAA AACCTN 106

25 SEQ ID NO:1737

SEQUENCE LENGTH:106

SEQUENCE TYPE:nucleic acid

30 TOPOLOGY:linear

CLONE:HUMGS01955

SEQUENCE DESCRIPTION:

GATCNCNCCT CAACACCTAG TGCAATTCTT TTTACACATT AGGNACTTAG TAATTNGGGT 60

TGAATTGTGT TGAACCTAACC TGGCGGTATA GGCAAAANTT GGAAGN 106

35 SEQ ID NO:1738

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS01956

SEQUENCE DESCRIPTION:

GATCTCCCAT TTCTAGGAAC CCCAGTCTG CTTCTCCGCA ATGGCACATG CTTCCACTCC 60

ATCCATACTG GCATCCTCAA ATAAACAGAT ATGTATACAT ATAAA 105

45 SEQ ID NO:1739

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

50 TOPOLOGY:linear

CLONE:HUMGS01957

SEQUENCE DESCRIPTION:

GATCCAAGAG ATATATTGG CAACTTTTTC TAGAAAAGGC ACATTGGGTA TAATTCATTA 60
 CATTCCTTGAG TTTTTTGGG TTTTTTTTTT TTTTTTNGNG NNANN 105

5

SEQ ID NO:1740

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS01958

SEQUENCE DESCRIPTION:

GATCCAGCTG GAAAGCTGAA GTATTCGAT AAAGTGAATT GAGAAATACT TCTTCAAGTT 60
 ATGATGCTTG AAAGTTCTCA ATAAAGTTCA CGGTTTCATT ACCNAAA 107

15

SEQ ID NO:1741

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20

CLONE:HUMGS01959

SEQUENCE DESCRIPTION:

GATCTTAAGG TATCAGTATT TCAGAATCCT GCGACGATT TATTTCTAAA TTCATGTACT 60
 GTATGTCCAT AAGTGAAAAT AAAATNTCAT ATTCTTTTCT ATNATTGGTA TCATTCAA 119

25

SEQ ID NO:1742

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS01960

SEQUENCE DESCRIPTION:

GATCCTTAGC TCTTTGCTCT ATGGCCCTTC CTCATCAGGG GACCGTTTCC CCCCTCTTCC 60
 TTCACAGTAT TTAAGAAATA AAAGTCGGAT TTNCTGGCT GCTTTCTCTC TAAA 114

35

SEQ ID NO:1743

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS01961

SEQUENCE DESCRIPTION:

GATCGCCCCA TTGCACTNCA ANCTGGACAG CAAGAGCAAA ACTCCGTNTC AAAAAACAAA 60
 AACAAAAANCA AACAAAAAAN TTCCCTGAG AGAAAAACCTA TN 102

45

SEQ ID NO:1744

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50

CLONE:HUMGS01962

55

SEQUENCE DESCRIPTION:

GATCACACAC TAAGAGAACG TTGATTGCCT CGGCTATTGT GCTGGCTGGA CACTTTGGTC 60
 ACTTTTGAAG CATGTTAATA AATGTCACGTG ATTAAACAA A 101

5
 SEQ ID NO:1745

SEQUENCE LENGTH:100

SEQUENCE TYPE:nucleic acid

10
 TOPOLOGY:linear

CLONE:HUMGS01963

SEQUENCE DESCRIPTION:

GATCCAAGTT TGAAAACAAT TTTAGGCTAC TAGATATGAA CAACATCTTG ATTATGTAGT 60
 TGAAGGAAAT TAAAGATGAA TGGTTAATT AAAAATTAAA 100

15
 SEQ ID NO:1746

SEQUENCE LENGTH:99

SEQUENCE TYPE:nucleic acid

20
 TOPOLOGY:linear

CLONE:HUMGS01964

SEQUENCE DESCRIPTION:

GATCAAATTA AATAATTCAA GCCCTGCCTT CAAATGAAA TTTTTTTTTT AGTATTATTT 60
 AGCAAAANCA ATAAACCCA AATTTTTTTA ACCATCAAA 99

25
 SEQ ID NO:1747

SEQUENCE LENGTH:97

SEQUENCE TYPE:nucleic acid

30
 TOPOLOGY:linear

CLONE:HUMGS01965

SEQUENCE DESCRIPTION:

GATCACTTCA AGCAAGCCCC CATGATGGTT CTCAGTCCTG CTTCTCTGTG GGTACGTGCC 60
 CCTCTGTTTA AAAATAAACT GAATATGGAT GTTAAA 97

35
 SEQ ID NO:1748

SEQUENCE LENGTH:100

SEQUENCE TYPE:nucleic acid

40
 TOPOLOGY:linear

CLONE:HUMGS01966

SEQUENCE DESCRIPTION:

GATCAAAATG AAAACCTGTT GATGTGAATT CAGTTATTGA ACTTGTTACT TGTTTTGGC 60
 AGAAATGTGA TTAATAAATG TCAATGTGGG AGATAATAAA 100

45
 SEQ ID NO:1749

SEQUENCE LENGTH:95

SEQUENCE TYPE:nucleic acid

50
 TOPOLOGY:linear

CLONE:HUMGS01967

SEQUENCE DESCRIPTION:

GATCTGATGT TCCTTTTATT TATAACAATG TTAAATGCAA TTGTCTTGTA CCTTGAGTTG 60
 AGTATTACAC ATTAAGTAA AGTACAAGCT GTAAA 95

5
 SEQ ID NO:1750

SEQUENCE LENGTH:94

SEQUENCE TYPE:nucleic acid

10
 TOPOLOGY:linear

CLONE:HUMGS01968

SEQUENCE DESCRIPTION:

GATCCAGAAG TAAATGTATC TNCAAGCTGA TTAAATTGT AGATTNNTC TTCATTGCAT 60
 ATTNCTGAT GTTGAATAAA GTCTGAGTAT TAAA 94

15
 SEQ ID NO:1751

SEQUENCE LENGTH:89

SEQUENCE TYPE:nucleic acid

20
 TOPOLOGY:linear

CLONE:HUMGS01969

SEQUENCE DESCRIPTION:

GATCCAAAGT ATATTTTAC TGAGAATATA TCTGAAAAA TTGAATTGA GATTAAATT 60
 TTAAATGAAA TATATTTACT TTTTAAAA 89

25
 SEQ ID NO:1752

SEQUENCE LENGTH:89

SEQUENCE TYPE:nucleic acid

30
 TOPOLOGY:linear

CLONE:HUMGS01970

SEQUENCE DESCRIPTION:

GATCCTGGCC CCTCAACCTC CTGTGGAACC CAGCAGTTCT GTTATATCCC CTGCTACCCT 60
 AGATGAATTA AGACGGTTAA ATACTGAAA 89

35
 SEQ ID NO:1753

SEQUENCE LENGTH:89

SEQUENCE TYPE:nucleic acid

40
 TOPOLOGY:linear

CLONE:HUMGS01972

SEQUENCE DESCRIPTION:

GATCTGTCTT GCTTATTGTT GCCCCTGCG NCTAGCACAA TTCTGACACA CAATTGGAAC 60
 TTAATAAAAA TTTNTTTTAA CTGTTTAAA 89

45
 SEQ ID NO:1754

SEQUENCE LENGTH:87

SEQUENCE TYPE:nucleic acid

50
 TOPOLOGY:linear

CLONE:HUMGS01973

SEQUENCE DESCRIPTION:

GATCATATGG TAGTTTTGTT TTACTAATCT AAGGGTACTA GCATCTACAA TNATATAGAC 60
 AAAATAAAAT ATTCTTTAA TGGCAAA 87

5

SEQ ID NO:1755

SEQUENCE LENGTH:85

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS01974

SEQUENCE DESCRIPTION:

GATCTGTTTT CTCTAAAATC TTACCATATT GTCTGTATAT GGTGTAAAT NCAATGGAA 60
 AGTAAACGT TTTGGCCCTG ATAAA 85

15

SEQ ID NO:1756

SEQUENCE LENGTH:88

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20

CLONE:HUMGS01975

SEQUENCE DESCRIPTION:

GATCCTGCTG GAAACCACGG CAACCTGTAT CCACTATTAG GAGGTAAAAA TCAATAAAAT 60
 GGCCCATTC A TTTGTGTTGT AGCTCAAA 88

25

SEQ ID NO:1757

SEQUENCE LENGTH:84

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS01976

SEQUENCE DESCRIPTION:

GATCTACAAC ATATAAAATT GTGTATTTTC NTTGGTTGT CCCTATTAAC AAAAAAGTAT 60
 TTNAATAAAA ANTTGAAATG NAAA 84

35

SEQ ID NO:1758

SEQUENCE LENGTH:82

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS01977

SEQUENCE DESCRIPTION:

GATCCCACTG TAAAATTGGA AATGGGCAGT TCTGAATTTT CACGTTTGAA ATGTAAAATA 60
 TAAACTTCAG TCAATATCCA AA 82

45

SEQ ID NO:1759

SEQUENCE LENGTH:82

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50

CLONE:HUMGS01978

55

SEQUENCE DESCRIPTION:

GATCTGGACG TTCACGTGCA CTCTCTTCCT GTACAGTATT TATTGTTCTT GGCACTTTAT 60
TTAAAGATAT TTGACCCCTCA AA 82

5
SEQ ID NO:1760

SEQUENCE LENGTH:81

SEQUENCE TYPE:nucleic acid

10
TOPOLOGY:linear

CLONE:HUMGS01979

SEQUENCE DESCRIPTION:

GATCCTTACT CCTGCATTGT TCTTTGCCAG NGNCCTATTT AAAAATTTTA AAATTCTCAT 60
TAAAGTCAGC TTGGGTTTAA A 81

15
SEQ ID NO:1761

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

20
TOPOLOGY:linear

CLONE:HUMGS01981

SEQUENCE DESCRIPTION:

GATCTAAAGA GAAAAGGGAG AAGAGGGAAA AAGGAAACAA AGGAGAAGAA AGAGGGAAAG 60
GAAAAAAAAG AAAAAGAAA 79

25
SEQ ID NO:1762

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

30
TOPOLOGY:linear

CLONE:HUMGS01982

SEQUENCE DESCRIPTION:

GATCATGAAA GGTGATAAGC TCTTCTATGA TAGGGGAAGT AGCGTCTTGT AGACCTACTT 60
GCGCTGTTGT ACTCTGAAA 79

35
SEQ ID NO:1763

SEQUENCE LENGTH:80

SEQUENCE TYPE:nucleic acid

40
TOPOLOGY:linear

CLONE:HUMGS01983

SEQUENCE DESCRIPTION:

GATCAAATAT TTTGCCTTTN ACTNAAATCA GCCAGCCCAT NACCCCAAT AAAGGGCAGC 60
TGCCTCTGCT CCCTCTGAAA 80

45
SEQ ID NO:1764

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

50
TOPOLOGY:linear

CLONE:HUMGS01984

SEQUENCE DESCRIPTION:

GATCAAATTT CTAAAGCAA ACAACAAAAA TGTACATTTC TGTTTTTCCT TTATAAAAC 60
 AGGTGTACTC TTTATCAAA 79

5

SEQ ID NO:1765

SEQUENCE LENGTH:78

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS01985

SEQUENCE DESCRIPTION:

GATCTAGTGT CCTTTTGTGA CACTAAACAG GTGAATGCTG ACTTTTTTCA TTCTCCAATA 60
 AATNTCACTG AACTGAAA 78

15

SEQ ID NO:1766

SEQUENCE LENGTH:75

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20

CLONE:HUMGS01986

SEQUENCE DESCRIPTION:

GATCTTTGTT TAGTTTCAAG TCTTTTATA ACTAAATCTG CTGGCATTAG ACAATAAATA 60
 CATTITCAAA ATAAA 75

25

SEQ ID NO:1767

SEQUENCE LENGTH:75

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS01987

SEQUENCE DESCRIPTION:

GATCATATAT ACTTGCATAA TATCATCCCT TCCCTTGATT TCTTTCAATC TAAAAATAAA 60
 TATGAGAAAA ACAA 75

35

SEQ ID NO:1768

SEQUENCE LENGTH:78

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS01988

SEQUENCE DESCRIPTION:

GATCGATATT AATGTATCCA ATGAAATAAT CGACTTGTNC TTGATAGCCT CATTAAAGCA 60
 TTTGGTTTIN CACATAAA 78

45

SEQ ID NO:1769

SEQUENCE LENGTH:74

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50

CLONE:HUMGS01989

55

SEQUENCE DESCRIPTION:

GATCTGAGCC CCCAAGATGG AGAATGGGGA GGAGCTTTTT ATGGCGGACT GATTAAAACT 60
CTTAAGCATT TAAA 74

5

SEQ ID NO:1770

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS01990

SEQUENCE DESCRIPTION:

GATCTGCTTG GCCTTGATAA GCTATGTTGT TGCACCTTAA ACATTTAAAT TATACAATCA 60
TCAACCCCA AA 72

15

SEQ ID NO:1771

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20

CLONE:HUMGS01991

SEQUENCE DESCRIPTION:

GATCCTCCCC TTCAAATGAC TGTAATTAAC AACACTTAAA AAACCTGAAT AAAATATTGA 60
AACCTCAAA 69

25

SEQ ID NO:1772

SEQUENCE LENGTH:68

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS01992

SEQUENCE DESCRIPTION:

GATCTATTCT GAAGCTGTTT ATTTTAAACA AATAAAATGT TACAGGTTTC ACATGATTTA 60
TTCTCAAA 68

35

SEQ ID NO:1773

SEQUENCE LENGTH:66

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS01994

SEQUENCE DESCRIPTION:

GATCCGTAAC TNCGGGATAA GGATTGGCTC TAAGGGCTGG AGAAGGAATG AATAAAAAAA 60
AAGAAA 66

45

SEQ ID NO:1774

SEQUENCE LENGTH:67

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50

CLONE:HUMGS01995

55

SEQUENCE DESCRIPTION:

GATCCCATGT CTCTGCCAGG ACCAAGGCNG ATGTTTCCCC ACTAATAAAG TGCCGGGTGT 60
CAGCAAA 67

5

SEQ ID NO:1775
SEQUENCE LENGTH:65
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10

CLONE:HUMGS01996
SEQUENCE DESCRIPTION:
GATCCTTTT AATACCACAG CATTTGTACT GTTCCTTTT AATATACTGA AAATATAAAA 60
GGAAA 65

15

SEQ ID NO:1776
SEQUENCE LENGTH:71
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

20

CLONE:HUMGS01997
SEQUENCE DESCRIPTION:
GATCCGATTA TTTCTGCCAG TNTATTTTGG NCACCTTATA ATCATTAAAG CACTTTCTTG 60
GCAGGCNCAA A 71

25

SEQ ID NO:1777
SEQUENCE LENGTH:72
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

30

CLONE:HUMGS01998
SEQUENCE DESCRIPTION:
GATCTTACAA TAATGTTCCA CTCTGCAAAT TTTTAAGGTT CAAATAAAGT TTAATTGTTT 60
GCAAACTGTA AA 72

35

SEQ ID NO:1778
SEQUENCE LENGTH:65
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

40

CLONE:HUMGS01999
SEQUENCE DESCRIPTION:
GATCATTGCA CCATGTCAGA CTTTGTATA TNCCTTGAAA ATAAATGAAA GTNAGAATCN 60
TCAAA 65

45

SEQ ID NO:1779
SEQUENCE LENGTH:62
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02000

50

55

SEQUENCE DESCRIPTION:

GATCCTGTCC TGATTCTCAA AAATTATTTT CTCTGTATGA TAAAAAGTTT ATTCCATTTA 60
AA 62

SEQ ID NO:1780

SEQUENCE LENGTH:66

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02001

SEQUENCE DESCRIPTION:

GATCCCTTCA TTTGAATATT AATGGCTTTT TCCATTAAAG AATAAAATAT TTTGGACAAT 60
GCCAAA 66

SEQ ID NO:1781

SEQUENCE LENGTH:68

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02002

SEQUENCE DESCRIPTION:

GATCAAATTT ATAAGTTATT ATTTTAAATT TTCTAAATTA AATAAAAGAA AGAATGCAAA 60
CCAGGAAA 68

SEQ ID NO:1782

SEQUENCE LENGTH:59

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02003

SEQUENCE DESCRIPTION:

GATCAATAAA GAGTAATTC TTGCTAAATA AATAAAAGAA ACCTTGTTGA AAAACTAAA 59

SEQ ID NO:1783

SEQUENCE LENGTH:59

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02005

SEQUENCE DESCRIPTION:

GATCTGAATN ATGCACCCCA CCCCCACCC AATAAGAAA TAACAGAAAA CCCTCGAAA 59

SEQ ID NO:1784

SEQUENCE LENGTH:58

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02006

SEQUENCE DESCRIPTION:

GATCTTCATT TTTTTTTT AACTTGGCGT TTTTGAATA AAAACCTTT GTCTTAAA 58

SEQ ID NO:1785
SEQUENCE LENGTH:59
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS02007
SEQUENCE DESCRIPTION:
GATCTCAGTT GTAAATAGAA AAATCTAATT CAATAAACTC TGTATCAGCC CCCAACAAA 59

10 SEQ ID NO:1786
SEQUENCE LENGTH:52
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
15 CLONE:HUMGS02010
SEQUENCE DESCRIPTION:
GATCCAAAGT CATGTGTCCA CACATTCATA AATAAAAATT TTACCTATGA AA 52

20 SEQ ID NO:1787
SEQUENCE LENGTH:51
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02011
25 SEQUENCE DESCRIPTION:
GATCCAGTGA AGCCAGAAGC CAAATAAACT CAAAAGCTGT CTCCCCACAA A 51

30 SEQ ID NO:1788
SEQUENCE LENGTH:54
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02012
SEQUENCE DESCRIPTION:
35 GATCCTAATT TATGCCTATG CAAAAATAA ATAACGCCCA AGAGCTGTGG GAAA 54

40 SEQ ID NO:1789
SEQUENCE LENGTH:53
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02013
SEQUENCE DESCRIPTION:
45 GATCGCCTAG TATGTTCTGT GAACACAAAT AAAATTGATT TACTGTCTGC AAA 53

50 SEQ ID NO:1790
SEQUENCE LENGTH:58
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
55

CLONE:HUMGS02025

SEQUENCE DESCRIPTION:

GATCCG TAGT AATAAATTCT CAGAGGACTC AGCCTTTCTT GCGGGTCTGG AGCTCAAA 58

SEQ ID NO:1791

SEQUENCE LENGTH:597

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02039

SEQUENCE DESCRIPTION:

GATCAGAGTC TCTTGGGCAT TTTATATTTT GCATTCTGAT GTACCTAGGA GTTTTGTTAA 60
 ACAGATGATG TATGTNAGTA TTTATCCCAT TTTATGCAAT TAACCAAATC AACCAAAAAA 120
 AGTGACCATG AAGTCCTGTA TTTGTNTTTT TACTACATGT AGGAACTCTC ATGTGAATGA 180
 GTACTGTAGT AATCCATTCT ATGGGAGCCT TATTTTCAGAA ATATTTCAAA CTGGTGCAAA 240
 TGGAAAAGAC TTTCTCTTTT CCTTTAAAGC TAAAGACAAG AATATCATGC TATACAGGTG 300
 CAACTCAATC CCCGTTAATA AAAACCAATG TAGGTATAGG CATTCTACCC TTTGAAATAG 360
 CTGTGTCCCA ACCTGTTGCC ATTGATTTT TGGGAATGGC TTTAGGAAAT ATCCAAGTTG 420
 TCCTTGGAAT TGTCTAACCA TGGNCATAAA CAGTTGTCTC CCTTCTACTT GTGTAGAATA 480
 CTTTGGNCTT AATTTTCCTN CCAGATACAG GGGGGTACCT GCCTGTTTTT CNAAGGGTTT 540
 ATTACTGGNG GTACCATTG GTAGGATTGT TTTAAATAAA AAAACCTGGT TTTTAAA 597

SEQ ID NO:1792

SEQUENCE LENGTH:518

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02040

SEQUENCE DESCRIPTION:

GATCCAAAAC TGGACCCCTG GAGCCGTCGA CTCACAGATG GATGACATGG ACATGGACTT 60
 AGACAAGGAA AAAANNCAGG ACTTGAAGGA GCTCAAGGTG CTAGTGGCTG ACAAGGACCT 120
 TCTGGACCTG CACAAGAGCC TGGTGTGCAC TGCTCTCCGG GGAAAGCTGG GCGTCTTCTC 180
 TGAGATGGAA GCCAACTTCA AGAACCTGTC CCGGGGGCTG GTGAACGTGG CCGCCAAGCT 240
 GACCCACAAT AANGATGTCA GAGACCTGTT TGTGGACCTC GTGGAGAAGT TTGTGGAACC 300
 CTGCCGCTCC GACCACTGGC CACTCAGCGA CGTGCGGTTT TTCCTGAATC AGTATTCAGC 360
 GTCTGTCCAC TCCCTCGATG GCTTCCGACA ACAAGGCCCT CTGGGACCGC TACATGGGCA 420
 CCNTTCCGNG GCTGNCTNCT GCGGCCTGTN ATCATGACTG AGGTGGCCTN CCAAANGTTN 480
 CGCCCAAGGT TGACAATAAA GTTGCTCTGA GTTTGAAA 518

SEQ ID NO:1793

SEQUENCE LENGTH:513

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02041

SEQUENCE DESCRIPTION:

GATCTGTAAT TTTAATTTT ACCCTCTGTA CCCCATGACC TTATCCTTCC TCTCCTTCCT 60
 TGTTACCCAT GAAAAACTGG CAACATTCCA AGAATAGCAT CTGTACAAAG GGGAAAGAAC 120

ATAAAGGTAA AACAAAACAA AACAACATTT TGAGAACAAA GATGACCATA ACCACTGAAG 180
GGAATCACAT CTTTAAAGAC AAATTCATAT TCTTTTATTT GTTATGGCAG ATGACAAGAT 240
GGTACAACCT TTATTCTTTT NCAAAATAAA ACAAAGGGCA CAGCATCTGT AGTCAGCCGA 300
CAACTATTNC GGCCTTTTGG GGGTNGGTCT NGCCGTACTT GTGATTTCGA TGGTACGTGA 360
CCNTNTTCTG GAAGGCTTGC CCCNTTGCCC GTGTACATAG GTGCATTGGT TNCNTTGGGA 420
GGGGCCCAAG NACTTTTNGG CNANNGTTGT ACTGGTATTG TNATGAAATT TNCGGTTGGN 480
CCTCTTGNN NTTTTTTNTG CANGAANGNN GGN 513

SEQ ID NO:1794

SEQUENCE LENGTH:499

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02042

SEQUENCE DESCRIPTION:

GATCTCTTAA GAGATGATGG ACTCATGTAT GTCACCCGAC TTCGCAACAC TGGGGTTCAG 60
GTGACTCATA ACCATGTGA GGTGGATTC CATGGAGCAT TTTTATTCT GGGACTTAAA 120
ATTAGTCACA GACTTATAAA TCAGTATATT GAGTGGCTAA AGGAAAATCT ATAGTAAAAC 180
ATGTAGTAT AACATATTTT AAAAATAAAA TCTGAAAACC TCAGAAAATT TGCATTAGAA 240
ATTGGTCTTT CTTAGAATGG TCTAGTTAAG TTCCACATGT AGCATAATTC TTAATAGGC 300
ACTTTTCTGT TTTTTTTTNC TNACTGTGGG ATTTTCATNC AATTTTCTAC ATTGTCTATC 360
TGCTTTTCT GNGATTTTCC NCTTACACTG TTAATCTNAT TTTAAAAAAA TGTACATNCC 420
NNGNANACNT TAANTTTGGG GAGTTNGGCT ACNANTTNAC GGTGCCAGG GGGNTTAAAT 480
GGTGGGGCCA ATTTTAAAA 499

SEQ ID NO:1795

SEQUENCE LENGTH:483

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02043

SEQUENCE DESCRIPTION:

GATCAAAAGCG CCACTGCCCT GCACCTCCTG GGCCGCGTGG CAACCCGCTG NGCACAGCAT 60
GAGGCCAGGG NCCCAGAACA CAGTGCCTGG CAAGGCCTCT GCCCNTGGCC TTTGAAANAA 120
AGGCCAGCAG CAGATAACAA CCCCGGACAA ATCAGCGATG TGTACCCCC AGTCTCCAC 180
CTTTCTTCT AATGAGTCGA CTTTNNCTG GAAAGCAGCC GTTCTCCTT GGTCTAAGTG 240
TGCTGCATGG AGTGAGCAGT AGAAGCCTGC AGCGGCACAA ATGCACCTCC CAGTTTGCTG 300
GGGTATTITT AGAGAATGGG GGTGGGGAGG CAAAGAACCA GTGTTTAGCG CGGGACTACT 360
GTTCCAAAAA GANTTNCAAC CGNCCAGNTT GTTTGTGAAA CAAAAAAGTG TTNCCTTTTT 420
CAAGTTTGAG AACAAAAATT GGGGTTTTAA AATTAAAGTA TACCATTTTT TGCATTTGNC 480
AAA 483

SEQ ID NO:1796

SEQUENCE LENGTH:481

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02044

SEQUENCE DESCRIPTION:

5 GATCCAAAAC GCTTCGAGGC ACCCCAAATT ACCTGCCCAT TCGTCAGGAC ACCCACCAC 60
 CCAGTGTAT ATTCTGCCTC GCCGGAGTGG GTGTTCCCGG GGGCACTTGC CGACCAGCCC 120
 CTTGCGTCCC CAGGTNNNA GCTCTCCCT GGGCCACTAA CCATCCTGGC CCGGGCTGCC 180
 TNGTCTGACC TCCGTGCCTA GTCGTGGCTC TCCATCTTGT CTCCTCCCGG TGTCCCAAT 240
 GTCTTCAGTG GGGGGCCCC TCTTGGGTCC CNTCCTCTGN CATCANCTGA AGACCCCCAC 300
 GGCAAACACT GAATGTCACC TGTGNTGCN GNCTCGGTCC ACCTTGGGGG CCGTGTGTTGA 360
 10 CTAAACTTNA ACTTCTTTA ACGGTAATAT TTCCGGCAA AATCCAATGG TTTGGGTTTT 420
 GGTCTTTTAA CNTTGTAAC GGTGCAAAAT CCAAATAAAA GCAATTAAAA AGTCAATGAA 480
 A 481

SEQ ID NO:1797

15 SEQUENCE LENGTH:462
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02045

SEQUENCE DESCRIPTION:

20 GATCTAAAAG GGTTTTCTTA GAAAGGGCAA TATTGTCCAA TGAAGTAAGC AGAAGGACTC 60
 TGGGTTAGAA GCATCTGCAC AAAAAGTGGT GAGACCTACT CTCCACTGCT CTGCAGCTGG 120
 ATGGCTGATG GCAGGCTGAG CAGTGGGGAA GCAGGTTTGA ACAACAGGGA GTCCTTCCAG 180
 GTCATGTAT ATTGNGAAGA AACATAAAC TATTGTCTGT TACATTCCGA GGTCAAGCCTT 240
 25 CTNCTTAACG TTTTATAATA TGCAATNCC AGCTTCTGGA AAGCANGTAT CATCATGTAC 300
 CAAATGCTTT ATACACCATC ACATTCATGA NTTTTNAGC ATGGTCAGAN CTTGTGTAAA 360
 TATGTCTCTT AGGATGATT TGGGGGAGGA TGTGATTAT TTTCCATAAT TTCCAAANTN 420
 GCATTTTCCA TTTCAAATA AGGNTAATCT NTTGGGGCCA AA 462

SEQ ID NO:1798

30 SEQUENCE LENGTH:448
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 35 CLONE:HUMGS02046

SEQUENCE DESCRIPTION:

40 GATCAGCCTG CAGCCATCCC CCGACCCTGC TGCTAGGCCA CGGTCTGCGC CCTGGGGCCT 60
 CATCTCCCC AGCCCACTTG TTTTCCCCC TTTTATCCC TAGGCCCTTT TCAGACTCCT 120
 GGGCCCTTGG NNNCTCTTCT CCCATCTCCC TTCACAGGAT GACACCCTCC CATACCCCAT 180
 AGCTGGGGCC AGCAGTTTCT GCTGAGGGTG GGGCTGGTGT AGGGACCCCC AAGAGACCCC 240
 TGTCTGTCC CTTACCAAGT CCTGGGGAGG CTGGGACTCC CCCTGCCACA AGCCTGGGCC 300
 ACAGTTCACA TTCACTGCT GGGAGAAGAA ACAGGCCGAG GCCCAANAGT GGCCTGCCCC 360
 CGGGAGCCAA AGACCCNAGT GGCCACANTG GGATTAGGT NGGGGAGGNT TGGNAGCGCT 420
 45 NTTTTTATAA ATATTATACA TAAGGAAA 448

SEQ ID NO:1799

50 SEQUENCE LENGTH:448
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS02047

SEQUENCE DESCRIPTION:

5 GATCTGGTTG GTGGATGAAC AAGTGTCACG CTGGCCATCT CAATGGNGTT TATTACCAAG 60
 GTGGCACTTA CTCAAAAGCA TCTACTCCTA ATGGTTATGA TAATGGCATT ATTTGGGCCA 120
 CTTGGAAAAC CCGGTGGTAT TCCATGAAGA AAACCACTAT GAAGATAATC CCATTCANCA 180
 GACTCACAAT TGGAGAAGGA CAGCAACACC ACCTGGGGGG AGCCAAACAG GCTGGAGACG 240
 TTTAAAAGAC CGTTTCAAAA GAGATTTACT TTTTAAAGG ACTTTATCTG AACAGAGAGA 300
 10 TATAATATTT TTCCTATTGG ACAATGGACT TGCAAAGCTT CACTTCATTT NNNNGAGCAA 360
 AAGACCCCAT GTTGGAAAAC TCCATACCAG TTTTATGCTG ATTGATAATT TATCTACATG 420
 CATTTCAATA AACCTTTTGT TTCCTAAA 448

SEQ ID NO:1800

15 SEQUENCE LENGTH:432

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02048

SEQUENCE DESCRIPTION:

20 GATCTGAATT ATCTGGCACC CTCCTGAATG GAACCCAGAG GTACCTCCTG TGTGGAAGGG 60
 TCCTGGATT TCCCTAACAC CCACCTCTC CCCCTCAGC CATGCTGATG GCAGAGAAGA 120
 TAAGAACTTG GAGCCCATTT CTCCTGGAG AGGAAAACCT GTCATCTGGC TTTGCGGAGA 180
 AGGTTCCACC TTACGCTCGT AGTACATTAT CTTTACTATG TGCTAGGATA TCATATTAA 240
 25 AAGGACAAAA AAATGTAAAA TACTTGAATG AGCTTGATT ATANCAATTA TATTATNNNG 300
 NGTATCTGCT TTCCAGGCTG AAGTGATTCA TTCATTATTC TAGTCCTGCT TTAGTCCTTT 360
 GTAATTTGTG GTAATTATGC TTTTCTTTT AATACAAAAA AATGTATAAA ATTAACACT 420
 TGAAAAGGCA AA 432

30 SEQ ID NO:1801

SEQUENCE LENGTH:430

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02049

SEQUENCE DESCRIPTION:

35 GATCCGNGCG AGGGCAACAG CGGNTCACCT ACAGCGCACT GTCGATGGCT GCACGAGTCA 60
 CACCGGAGCC TGGGGCAAGA CAGTGATTGA ATACAAAACC ACCAAGACCT CCCGCCTGCC 120
 40 CATCATCGAT GTGGCCCCCT TGGACGTTGG TGCCCCAGAC CAGGAATTCG GCTTCGACGT 180
 TGGCCCTGTC TGCTTCCTGT AAACCTCCCTC CATCCCAACC TGGCTCCCTN CNACCCAACC 240
 AACTTNNCCC CCAACCNGGG AAACAGACAA GCAACCCAAA CTGAACNNN TCAAAAGCCA 300
 AAAANTNGGG AGACAATTC ACATGGACTT TGGAAAAATA TTNTTTCTT TTGCATTCAT 360
 45 NTNTCAANCT TAGTNTNTA TCTTTGANCA ACCGGANCA GGCCAAAAAN CAAAAGGTGC 420
 ATTCAACCTN 430

50 SEQ ID NO:1802

SEQUENCE LENGTH:428

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02050

SEQUENCE DESCRIPTION:

5 GATCCCAAGG GAAAGATGAT TTGTATGTTA AAGTGACTGC ACAAGTAAAA GTCCAATGTT 60
 GTGTGCATGA AAAGGATTCC TTGGTTATGT GCAGGGAATC ATCTCACATG CTGTTTTTCC 120
 TATTGTGTTT GAGAAACAGG CTGACACTAT TCTCTTTGAT TAGAAAAATA ACTCATAAAA 180
 CTCATAATGT TGATATAATC AAGATGTAAC CACTATAAAT ATGTAGAAGA GGNCGTTTTA 240
 AAAGACCTTA AGCTGGCATT GTGAAGGAAC ACCATGGTAG ACTCTTTTTG TAAATGTATT 300
 10 TTGTATTAA TGAAATGCAG TATAAAGGTT GGTGANGTGT AATATANTTG TGTAACAAA 360
 TCCTGTAAAT AGAGAGATGT ACAGAATCGT TTTTGGTACT GTATCTTGA AACCTTTGTG 420
 AAAATAAN 428

SEQ ID NO:1803

SEQUENCE LENGTH:401

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02051

SEQUENCE DESCRIPTION:

20 GATCAAAACC AAAGTGTCA ATGTGACAGT CTGAAAATA TATACTCTAC TTCATTGATG 60
 TTACACTTTT TTCTACTCCT TACCTGCTTT TACTAATGCA TTTATCCCA AGAAAACATC 120
 CAACAATATG GGAATAATTT GGAACAATAT CCAGCAATG GTATTAAAT AATTTACTGG 180
 TTACAAAACA ATATTATGAC CAGACTCCAT TTTAGAAAAA ATTAAATCTG CATCGAAAAG 240
 25 GGCCTTAAAA AATAGATTTC TAAAATCAAA ATCATGGTTG GCTCATGGGT GGGATTATTA 300
 GTGTTCCCTTA TAGTAGTTTG TCTGGATGTA CTTTCTGATT CTCCTGTAAT AAGCATGCAT 360
 TGCTTTTGTA ATNGGGGAAT AATANACCA TAAAAAGGAA A 401

SEQ ID NO:1804

SEQUENCE LENGTH:396

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02052

SEQUENCE DESCRIPTION:

35 GATCCGGCTG CAAAATTCAT ACCAACCAAC AAATAAGGA AGATACAAAG TCTTATAGAC 60
 ATCCGAAAAA AAGATTTTCT CCTGTGCTGG TCTATGATGT ATGTGGCAGT TGCTGTCTGC 120
 AGTTTACAAT GTATTGTAAA TGAAGATTTT TAAAATCTA TCTTGCTGNT TNNNTNNA 180
 40 ATATAAGAAA CTGGTACTTG GTAAAGAAAT CTGTCCGTAA GTACCCAC AATCAGTCAA 240
 ACTATATTTA AAGCCAGCCT GTTTTCAGAG TATGATGTCC TTTAATGTAA ACTCAATAT 300
 CAATATTTTA AATGTCCGGA TAATATTCTA GAGGTTTAAA AAATGGAAAT ATTTGANCTT 360
 TCTATTGAAG ACAATAAAGG TACACAAGTC GTTAAA 396

SEQ ID NO:1805

SEQUENCE LENGTH:392

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02053

SEQUENCE DESCRIPTION:

GATCAAGAGC AGTGCTTCTC CATTGTTTT GCAGAGAAAT GTTTTTCATT TCCCGTGTGT 60
 TTCCATTTC TTCTGAAATT CTGATTTTAT CCATTTTTT AAGGCTCCTC CCCATCTCCT 120
 TTCTTAAGGC ACTGTTGCTA TGGCACTTTT CTATAACCTT TTCATTCTCG TGTACAGTAG 180
 CTTAAAAATTG CAGTGATTGA GCATAACCTA CTTGTTTGTA TAAATTATTG AAATCCATTT 240
 GCACCCTGTA AGAATGGACT TAAAAGTACT GCTGGACAGG CATGTGTGCT CAAAGTACAT 300
 TGATTGCTCA AATATAAGGA AATGGCCCAA TGAACGTGGT TGTGGGAGGG GAAAGAGGAA 360
 ACAGAGCTAG TCAGATGTGA ATTGTATCTG TN 392

SEQ ID NO:1806
 SEQUENCE LENGTH:389
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02054

SEQUENCE DESCRIPTION:
 GATCCTATTT GGTATGTTTT TGCCACTGT TATGATTCAT CATGTATCTT ACAAGAGCCA 60
 CTCAAGCAAG ACTCTGCTTC TATGTATGGT GAGGCCCTGT TGTCTAGGC TAGAATAAAC 120
 TCTTTGTATG CCTCAGTGAA TATGCCAGGT AAAATATATG CAGTCAAGAA TGAATTATTT 180
 TTCTGACTAA AGTGTGTAGC AGTAAGTTCA AAATNGTGCC CTTGTTTTAA CAGTTTCTGT 240
 CAACATCTTC TCATTTTCC CTACAAAAAC ACCAGGGTGT ATTATAAGTA CTGCCTGTGA 300
 GAATTTGCAC TTTATGTATT TGTGTGTGGG ATTCCTTGTG GTTTTAGCCA AATGAAGTGT 360
 TATCNNTAAT AACCAGGTCT CTCATAAA 389

SEQ ID NO:1807
 SEQUENCE LENGTH:388
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02055

SEQUENCE DESCRIPTION:
 GATCCAATTG ATGTATATGT TTATATACTG GGTTCCTGTT TTATATACCT GGCTTTTACT 60
 TTATTAATAT GAGTTACTGA AGGTGATGGA GGTATTTGAA AATTTTACTT CCATAGGACA 120
 TACTGCATGT AAGCCAAGTC ATGGAGAATC TGCTGCATAG CTCTATTTTA AAGTAAAAGT 180
 CTACCACCGA ATCCCTAGTC CCCCTGTTTT CTGTTTCTTC TTGTGATTGC TGCCATAATT 240
 CTAAGTTATT TACTTTTACC ACTATTTAAG TTATCAACTT TAGCTAGTAT CTTCAAACTT 300
 TCACTTTGAA AAATGAGAAT TTTATATTCT AAGCCAGTTT TCATTTTGGT TTTGTGGTTT 360
 TGGGTTAATA AAACAATACT CAAATAAA 388

SEQ ID NO:1808
 SEQUENCE LENGTH:379
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02056

SEQUENCE DESCRIPTION:
 GATCTTTTCC ACCAGCACCC AGAGTGTCTT CTTTCTGGGC AAGGTCGTCTG ACCCCACGAA 60
 ACCATAGCCC TCCCAGGGCT GCTCATCTGT TCCAAGCAGG AGGATGTGGC AGGGGAGGGC 120
 TGGGAGTGAG TAGCTCTGTG TTTAGAGTTG GGGACAAGGA TGACACCGAA GTCCAGGAGT 180

CCAGGACAGC AGGTGCTGGC CGGTGGGGAG CGGGGAGGGG CACTGAGATG GGCAGGGCCT 240
 GGACATTCCA CACCTGGTG CTGTGCAGCC TCTGGCAGAG CATCCGACCT CTTGGAGCAA 300
 GTTCTGCCT CTGGAAGGG GCGGGGCCCT TTTCACAACA GGCTGGTTTG TACCGAGTAA 360
 ACAACACGNT GCCATGAAA 379

SEQ ID NO:1809

SEQUENCE LENGTH:379

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02057

SEQUENCE DESCRIPTION:

GATCCTAGGG GGTTTTGT TTGTTTNAAT TGTGAGGAAT AAAAAATNTT CTGCCCACAC 60
 TGGCATTTTA AGGTGACTGA GGTCAAACGT TGTTCCTTA GGTGAAATA GCAGCCAAAA 120
 CATTCTTNAC GCAGGGGCTT GGGATATGGC TGCTGGCAAC ACATTTTGTG GTGGGCTCCT 180
 TAATTTAATG AAAAAATTTA AGCTAAACAC AAGCCAAAAA TGAATAGGTT TTTTNAATTT 240
 TNATTTTTC CTAAACAGGC AATTGAAATA CATGGTACAA AAATAAGTGG TAAGATAATT 300
 GTAAAATGGA AATGGGCAGA NTATTCAATT TTCCATCTAT GNAAATTTTC NCATTAAAAAC 360
 TCATAGNTTT CTTTGNAAA 379

SEQ ID NO:1810

SEQUENCE LENGTH:358

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02058

SEQUENCE DESCRIPTION:

GATCNGTTCA GCCCTGAAAA GTCCAAACTC CCAGGTATTG TTGCAGAAGG NCGAGATGAC 60
 CTCTATAAAT CAGATGCATT CCATAAGGCA TTTNTTGAGG TAAATGAAGA AGGCAGTGAA 120
 GCAGCTGCAA GTACCGCTGT TGTGATTGCT GGCCGTTTCG TAAACCCCAA CAGGGTGACT 180
 TTCAAGGCCN CCNGGCTTNA AAAAGTTTT ATAAGAGAAG TTCCTCTGAA CACTATTATC 240
 TTCATGGGCA GAGTAGCCAA CCCTTGTGTT AAGTAAATG TTCTTATTCT TTGCACCTCT 300
 TCCTATTTTN GGTTTGTGAA CAGAAGTAAA AATAAATACA AACTNNTNNC ATCTCAA 358

SEQ ID NO:1811

SEQUENCE LENGTH:358

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02059

SEQUENCE DESCRIPTION:

GATCGTTTCT NATCTCNAAG TNCCTCATTG AGNTCGGTGC ATCTGGCCAN TGAGTCTGCT 60
 GAGACTCTTG ACAGCACCTC CAGCTCTGCT GCTTCAACA ACAGTGACTT GCTCTCCAAT 120
 GGTATCCAGT GATTCGTTGA AGAGGAGGTG CTCTGTAGCA GAACTGAGC TCCGGGTGGC 180
 TGGTTCTCAG TGGTTGTCTC ATGTCTCTTT TTCTGTCTTA GGTGGTTTCA TTAATGCAG 240
 CACTTGGTTA GCAGATGTTT AATTTTTTTT TTAACAACAT TAACTTGTGG CCTCTTTCTA 300
 CACCTGGAAA TTTACTCTTN GAATAAATAA AACTCGTTT GNCITTNCT TCTGCAA 358

SEQ ID NO:1812

SEQUENCE LENGTH:344

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02060

SEQUENCE DESCRIPTION:

GATCTATACT AGATAATCCT AGATGAAATG TTAGAGATGC TATATGATAC AACTGTGGCC 60
ATGACTGAGG AAAGGAGCTC ACGCCCAGAG ACTGGGCTGC TCTCCCGGAG GCCAAACCCA 120
AGAAGGTCTG GCAGNNNTCA GGCTCAGGGA GACTCTGCCC TGCTGCAGAC CTCGGTGTGG 180
ACACACGCTG CATAGAGCTC TCCTTGAAAA CAGAGGGGTC TCAAGACATT CTGCCTACCT 240
ATTAGCTTNN TTTTATTTT TTAACTTTTT GGGGGGAAAA GTATTTTAA GAAGTTTGTC 300
TTGCAATGTA TTTATAAATA GTAAATAAAG TTTTACCAT TAAA 344

SEQ ID NO:1813

SEQUENCE LENGTH:338

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02062

SEQUENCE DESCRIPTION:

GATCCAGTAG TAGAGACATC ATCGGTCCAA AAGACTTTGC ATCTCATTAG TTGTCCATAG 60
TGACTACCAG GAGGTGGCTG GCATCTATAA CGTGTGGGAC GTTTTATGT AAAGAACTGC 120
CTGTGTTTTT TTTTNAACC AAAGACACTG NCCATAGATT GACTTATACT TTTATAAGTC 180
TAATTGAAAT ACTTGGGGTA CTATGAAAGG NCTGTNCCTT GNGTGGCTAC GATTAGAAAA 240
TCAGGNCTAA CAAACTTTTC TTTGTCTGGA NGCATATATA TTTGTGATAT AATTNAATA 300
TGTATAATTT TGGTTAATA AATCAAACTCT ATGCCAAA 338

SEQ ID NO:1814

SEQUENCE LENGTH:336

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02063

SEQUENCE DESCRIPTION:

GATCCATAGA ATGGATACTG GGAGACAATT AGTAGACTTT GCTACAGGTA GCCAATAGCC 60
CAGCCTGCAG AGTCACGTCA GATATGAAAT CCCAAAGTTC CTCCTGACTA TTGGCAACAA 120
CAATCACTAA CTGCTACTAC AAAAAGGTAA AACAAAAATG AACTTACACT TTCAAAATAT 180
CAITCATGTA TATTAAACAA ATACTTCTTG AGTGTCTACC CAGTGCCAGA CAGTGGTCTA 240
GGTTCTGGGA GGTACAGCAT CGTGGGCCAC ATGGTTAGAA GCTGAGTGT CTAACAAGG 300
AGGCTGATTT TGCTGCTCTA CTTTGCACTG GTTAAA 336

SEQ ID NO:1815

SEQUENCE LENGTH:335

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02064

SEQUENCE DESCRIPTION:

GATCTGGATG TGGATGATGC GCCTGGAAC AGTCAGCAGG CAACTCCGAA GACAACGAGA 60
 TAAGCACCTT TCACAACCTC GGAACGTTT ATTCCCCTG GAAGCTTCTC ACCAGCATGG 120
 CCATCTCGGT GGTGTGCTT TTCTTCCTGG TGCAGTACT GCCTGGTGCC CAGCACATGT 180
 GCTGCCCTAC AGCACCTGT GGTCTTCTC GATAAAGGA ACCACTTCT TATTTTTTTC 240
 TATTTTTTTT TTTNGTAAN CCGGNANACC TCCTCCAGCC ATGAGGNNGG GGNNTANCCA 300
 NGTGTNATGT TTNGGAAANN NAAATGGNAT CTTN 335

SEQ ID NO:1816
 SEQUENCE LENGTH:335
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02065

SEQUENCE DESCRIPTION:

GATCCATGTG TAATATCACA AGAAATTATG GAAAAATATA ACATAAAATT AAAGTGGACA 60
 AACCAACAAA AGCTTTATTC AAGAACAGGT GACATAGTTG AATTGTTTG TAAATCTGGA 120
 TATCATCCAA CAAAATCTCA TTCATTTGCA GCAATGTGTC AGAATGGGAA ACTGGTATAT 180
 CCCAGTTGTG AAGAAAAATA GAATCAATGG CATTACTATT AGTAAATGC ACACCTTTTT 240
 CTGAATTTAC TATTATATTT GTTTCAATT TCATTTTCA AGTACTGTTT TACTCATTTT 300
 TATTCATAAA TAAAGTTTGG TGTGATTGG TGAAG 335

SEQ ID NO:1817
 SEQUENCE LENGTH:334
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02066

SEQUENCE DESCRIPTION:

GATCTTGATG CGGGACTTCA GTCCTAGTGG CATTTTCGGA GCGTTTCAA GAGGTACTA 60
 CCGNNACTAC AACAAGTACA TCAATGTGAA GAAGGGGAGC ATCTCGGGGA TTACCATGGT 120
 GCTGGCATGC TACGTGCTCT TTAGCTACTC CTTTCTCTAC AAGCATCTCA AGCAGGANGC 180
 GCTCCGCAAA TACCACTGAA GAGGACACAC TCTGCACCCC CCCACCCAC GACCTTGGCC 240
 CGAGCCCCCTC CGGNNGGAAC ACAATCTCAA TCGTTGCTGA ATCCTTTCAT ATCCTAATAG 300
 GAATTAACCT CCAAATAAAA CATGACTTGG TAAA 334

SEQ ID NO:1818
 SEQUENCE LENGTH:328
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02067

SEQUENCE DESCRIPTION:

GATCCAAACA TGAAAGCTGG AGCTACAAGT GAAGGCGTTC TGGCAAATTT CTTCAACAGT 60
 TTGTTGAGTA AAAAGACTGG CTCTCCAGGA GGCCCTGGTG TGAGTGGTGG TAGCCCTGCA 120
 GGTGGGGCTG GAGGTGGAAG CAGTGGTTTA CCACCATCCA CCAAAAAGTC AGGCCAGAAG 180
 CCTGTCTTAG ATGTTTATGC AGAACTAGAC AGAATTACAC GAAAACAGT TACAGTTTCT 240
 CCCACAACAC CTACATCTCC TACGGAAGGA GAAGCTTCTT GAAGATACCA AATAAAGCCA 300
 TTTATTCTGT TTTCTGGGNT AATGTAAA 328

SEQ ID NO:1819

SEQUENCE LENGTH:328

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02068

SEQUENCE DESCRIPTION:

GATCGGGGCT GCTTATGCCT TTCGTTTATC CTTGGGGTTT GAGAGCGCTG TATTGGGAG 60
 AGAGTTTAAA AATACATTAG GAGAGAGAAA CCATTAAGG TTTCACTGTC AGAGATATTG 120
 TAGGTGCTAA TACTGGATT CGTCTCANAT TTAATTTCTT TNATGGGTCT GTTAGTCATT 180
 CANCAAATCC CATAAGTATG TGTAAATATT TNAATTGTGT AAAACTCATT TGTACTTTA 240
 CAGCCTGTAA TAGTGTGTCT GCATTTNCAA CCTGTTGCAA TAACCTTNCT GAAATATTAA 300
 CACATTAATA AAACCTTTCT TAAACAAA 328

SEQ ID NO:1820

SEQUENCE LENGTH:328

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02069

SEQUENCE DESCRIPTION:

GATCAGAGAA GAGGCTACTG GGGGAGAATT CAGTGCCCCC TTCGCCCTCT AGGGNGCAGA 60
 CCTCCACTGC CATTGTCTG TNAGCCGCCA AANACCCAC GGGGTGCCCG CATGTCCCTG 120
 TCTANNNGCA GCCCAGGGCC CCCACTCCTG GCTCCTNACA CTTGCCTCCC CTATGGCCGC 180
 TCTCCAGACC CTCCTCCTTT CTCTCCCCA CATCCGCACC TGCTGTTCCC ACTCTGGGGT 240
 TCTCAAGTCC ATGAACAGAT ATTGTTGCAT TTTCCACAAT GCTGATTAAC CATAATAAAC 300
 AATCCAGAAA AGCAGTTTGG CCCAGAAA 328

SEQ ID NO:1821

SEQUENCE LENGTH:319

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02070

SEQUENCE DESCRIPTION:

GATCCAAAAG CCAGTCTCAG GAGTTTACCC CTGGGATGGG GGATGCATCT NCACCTGACT 60
 TTGGGGCCAC GTGCCCTGTG GCACCCAGC TCACTGGGAG TCTCAGGAGG GATAACCGGA 120
 TTTNTGTCT TTTCCCTGTC ACTCCACAT CACACAGAAA AATGGCATT CTCTCTGTCT 180
 CTCCCTGGCA TGGAGAGGGC AGACTGTGCA CATTCTACTA GGGTCCAAAT ACAGAAGGGC 240
 CCAGGGCCCA GGGGCTTGCA GCTTCGTGAG GGGTCTCTGG CCCAGTTTCC AATGAATAAA 300
 GTTCTCTTGA CAGCTCAA 319

SEQ ID NO:1822

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02071

SEQUENCE DESCRIPTION:

GATCATCAGA TGGTCGAGTA CTCTTGAAT GTCTCTTTGC TGTTTACTGT GGCCTCTTTA 60
 CAATGGTGAG ACTTATTTCT ACCCTCTACT TTCCACTATT ATTNNTTTC CCTATTGGAT 120
 AATACTAGTC TGAGCAGCCC TAATACTAGA TGTACCTAAA CAGAGATACA AGCCAAGTCA 180
 TTGTTCAAGTG TAGTCATTTT TTAGTATCTG TTTATATTTT GTCACACATC AGAATGTATA 240
 TTTTATAGAG CATGTGTTTG TCTACTNGTT TGTCTACTAT AATATGTCTT TAATAAAGCT 300
 AAAANCATTC TGAAG 315

SEQ ID NO:1823

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02072

SEQUENCE DESCRIPTION:

GATCGCTTTT TTGCCGCTCA TATTGAATG CATTGGGTTT CCTGGACCAG CTATTGAC 60
 AAGACTAGGG GGAGGTTGAG GGTGGCATA GCAGGCAGGG GCTGGGATAG ACATTCAACC 120
 TAGCTNNNT TCATGCTCTT AAGGCTTTAT TTTCTAGAA TGCCAAGAAA CCAACTTTCT 180
 TTAACATGA CTCATCTCTT CGATTTTCTT GTATAGGTCT TCCTCCCACC CCAATCTAC 240
 ACTTGTTAGA AACAGAATAA TTACCTTTGC TTAATCCATT ATCAACACTT GGAGATAGAG 300
 ACTTTACACT TCAGN 315

SEQ ID NO:1824

SEQUENCE LENGTH:332

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02073

SEQUENCE DESCRIPTION:

GATCGAAAAG GGACCCTGCT TCCAATTTCC CTCTTCCATT CCTCGAGCTA CTCCAGGGCT 60
 TAGAAGAATG CTCTTGGTCT GTGGGTCCAG TGTGTCTGT CATCCATTTA AGTGTTCCTA 120
 CTTTCAAGTG ACAATCTCTT CCTTGGCCCT GCCATAGGGC AGAGCATGTN TGGCATAGCA 180
 GCCTGACTTT NATGCCCTAA TCTTGAGTTG AGGAAATATA TGCACAGGAG TCAAAGAGAT 240
 GTCTTTATAT CTGACTGTAT ATAAATGAAG TTTTNGTT TTTTNGTT TCCTTTTGG 300
 TGCAATAAAG TTTGTTTTGG CAGAAGGAGA AA 332

SEQ ID NO:1825

SEQUENCE LENGTH:311

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02074

SEQUENCE DESCRIPTION:

GATCAAGGCG CGGACGCTAT CTACGACCAC ATCAACGAGG GGAAGCTGTG GAAACACATC 60
 AAGCACAAGT ATGAGAACAA GTAGTTCTT GGAGGCCCC ATCCAGGCCA GAAGGACCAG 120
 GTCCACCCAG CAGCTGTTTG CCCAGAGCTG GAGCCTCAGC TTGAAGATGA TGCTCAAGGT 180
 ACTCTTCATG GACCACCATT CGCTGTTGGC AAGAAACGGC TTTACTTACA AAACAGACTC 240
 TTTACCTTCT GCTGTGTTTG AAGTATGTTT AGTCAGCATG CTCAGGAAAT AAATGTGAAT 300

TGCCCTTGAA A

311

SEQ ID NO:1826

SEQUENCE LENGTH:309

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02075

SEQUENCE DESCRIPTION:

10 GATCTAGTGT TTGGAACGGA CGTTACCTGC TGGTTTGTGC ACAACAGTGG AAAAGGATTC 60
 ATTGACGGGC ATTACAAGGA TTAATTCGTG CCTNAGCTCT ACAGCTTTCT CAAACGGCCT 120
 TAAAGGTTA TAGTTTGGGA AATTATATAT TATTATACAT CTTTCCCTG TCACTTTTGC 180
 AGATATTCTT CGGTNCCNAT AATTAAAATG AACCAGATAT CAGGGTGGTT AATTAAAATG 240
 15 AACCAGATAT CAGGGTGGTT TATAAGCCT GTAAACACAC CTNAGAAAAT ANACATTTTA 300
 CANATGAAA 309

SEQ ID NO:1827

SEQUENCE LENGTH:301

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02076

SEQUENCE DESCRIPTION:

25 GATCATGAAT AACTGATTAG TAAGTCTTGC CTATATTTTC CTGATAGCAT ATGACAAATG 60
 TTTCTAAGGT AACAAGATGA GAACAGATAA AGATTGTGTG GTGTTTGGGA TTGGAGAGA 120
 AATATTTTAA TTTTAAATG CAGTTACAAA TTATAATGTA TTCATATTG TACTTTCTGT 180
 TAAAATGCAT GATTGCAGAA TTGTTTAGAT TTTGTGTTA TTCTTGATGA AAAGCTTTGT 240
 30 TTGTTCTTGT TTTAAGTTT GCACTCAAAT CTTAAGAAAT AAATCCACCC ATGTTATCAA 300
 A 301

SEQ ID NO:1828

SEQUENCE LENGTH:298

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02077

SEQUENCE DESCRIPTION:

40 GATCAGTGAA CTCTGGTTTT AAGATAATCT GAAACAAGGT CCTTGGGAGT AATAAAATTG 60
 GTCACATTCT GTAAAGCACA TTCTGTTTAG GAATCAACTT ATCTCAAATA GTAACTCGGG 120
 GCCTAACTAT ATGAGATGGC TGAAAAATA CCACATCGTC TGTTTCACT AGGTGATGCC 180
 AAAATATTTT GCTTTATGTA TATTACAGTT CTTTTAAAA CACTGGAAGA CTCATGTTAA 240
 45 ACTCTAATTG TGAAGGCAGA ATCTNTGCTA ATTTTCAGA TTAAAAATTCT CTTTGAAA 298

SEQ ID NO:1829

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02078

SEQUENCE DESCRIPTION:

GATCCCTTAT CCAACATGGT TCTAACCTTC AGTACTAAAG AAGATGCAGT TTCCTTTGCA 60
 GAAAAAATG GATGGAGCTA TGNCATTGAA GAGAGGAAGG TTCCAAAACC CAAGTCCAAG 120
 TCTTATGGTG CAAACTTTTC TTGGAACAAA AGAACAAGAG TATCCACAAA ATAGGTTGGC 180
 ACTGACTATA TCTCTGCTTG ACTGTGAATA AAGTCAGCTG TNCAGTATTT ATAGTCCATG 240
 TATAATAAAT ACATCTCTTA ATCTCCTAAT AAATTGGACC TTAAACTAC AAA 293

SEQ ID NO:1830

SEQUENCE LENGTH:291

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02079

SEQUENCE DESCRIPTION:

GATCANNATT TGAAAAGGNT TTCTAGAAAT TNGGGGTAAG AAGTACTACC AAAATGTAAC 60
 TNCTAATCAA GGGTGATGCA CAGCAAAAGC AATGGACCCC ATCCCTCTAA AGCCTGCCCT 120
 CCTTTGCCCT CAACTGTATA TGCTGGGTAT TTCATTGTN TTTTATTTT GGAGAAAGCG 180
 NTTTTAACTG CAACTTTCTA TAATGCCAAA NTGACACATC TGTGCAATAG AATGATGTCT 240
 GCTCTAGGGA AACCTTCAAA NGCANTAAAA ATGCTGTNTT GAAATGCCAA A 291

SEQ ID NO:1831

SEQUENCE LENGTH:288

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02080

SEQUENCE DESCRIPTION:

GATCTGGGCC TGAATAAGGG TTATCGAATG GTGGTGAATG AAGGTTGAGA TGGTGGACAG 60
 TCTGTCTATC ACGTTCATCT CCATGTTCTN GGAGGTCGGC AAATGCATTG GCCTCCTGGT 120
 TAAGCACGTT TTGGGGATAA TTTTCTCTTC TTAGGCAAT GATTAAAGTTA GGCAATTTCC 180
 AGTATGTTAA GTAACACACT TATTTTGGC TGTNTATGGA GAGATTCAAG AAATAATTTT 240
 AAAACCGCAT ACATAATAAA AGACATTGTT GCATGGCTTA TAGTCAAA 288

SEQ ID NO:1832

SEQUENCE LENGTH:288

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02081

SEQUENCE DESCRIPTION:

GATCCAGCCT TAATNTTTT CTGACATCCT AGTAATAGCA GACCCTGCAC AAAGTGGATA 60
 TCAGACTTAA TACTGTNAGG AGACAAAATA ATGAGAATAG TTTTACCAA GATAATNAAA 120
 TCTCGCATCA TGTCTGCATT TTACCATAGA TTGGAGTGCA TCCTTAGGAA ACTGAATGTA 180
 ACAAAAACCC AGGACATTTT TGGAAATTGT ATGCTCTCTA GCAACTTTGT GTGAATTTT 240
 ATACAAACAC TGTTCTATGA GTTATATAAA ATGTTATAAA ACTAGAAA 288

SEQ ID NO:1833

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02082

SEQUENCE DESCRIPTION:

GATCCTGAGA ACTTCAGGCT CCTGGGCAAC GTGCTGGTCT GTGTGCTGGC CNNNCACTTT 60
GGCAAAGAAT TCACCCACC AGTGCAGGCT GCCTATNAGA AAGTGGTGGC TGGTGTGGCT 120
AATGCCCTGG CCCACAAGTA TCACTAAGCT CGCTTTCTTG CTGTCCAATT TCTATTAAG 180
GTTCCCTTGT TCCCTAAGTC CAACTACTAA ACTGGGGGAT ATTATGAAGG GCCTTGAGCA 240
TCTGGATTCT GCCTAATAAA AAACATTAT TTCATTGCA AGAAA 285

SEQ ID NO:1834

SEQUENCE LENGTH:282

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02084

SEQUENCE DESCRIPTION:

GATCTCATGG GCTTCCCTG GAGGAAAGGT TTTTITGTT GTTTTITTTT NAAGAACTTG 60
AAACTTGTA ACAAGAGATG TCTGTAGCTT TTTNCCCAT CTGTAGTGTA TGTNAAGATT 120
NCAAAACCTG AGAGCACTT TCCITTTGTT AGAATTATGA GAAAGGCACT AGATGACTTN 180
AGGATTTNCA TTTNCCCTT TATTGCCTCA TTTCTTGTA CGCCTTGTG GGGAGGGAAA 240
TCTGTTTATT TTTNCCTACA AATAAAAAGC TAAGATTCTA AA 282

SEQ ID NO:1835

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02085

SEQUENCE DESCRIPTION:

GATCTTAAGC TTTGATAAGA GCTGTGCTGT GGCTGAGTAT GGTGTGTATG TGAAGGTGAC 60
TTCCATCCAG GACTGGGTTT AGAAGACCAT AGCTGAGAAC TAATGCAAGG CTGGCCGGAA 120
GCCCTTGCCT GAAAGCAAGN CTTAGCCTG GAAGAGGGCA AAGTGGACGG GAGTGGACAG 180
GAGTNGATGC GATAAGATNN GGTITGAAGC TGATGGGTGC CAGCCCTGCA TTGCTGAGTC 240
AATCAATAAA GAGCTTCTT TTGACCCAAA AAAANTAAA 279

SEQ ID NO:1836

SEQUENCE LENGTH:275

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02086

SEQUENCE DESCRIPTION:

GATCCATAGT GCTACCTGCA CCTCTGGATT CTGGATTCAC AGACCAAGTC CAAGCCCGTT 60
CTTACGTCGC CATAAGGCC CCCGAACGGC ATTCTCGGTA CTTCTGTTG TTTTGTACA 120
TTTNATTAGA AAGGACTGTA AAATAGCCAC TTAGACACTT TACCTCTTCA GTATGCAAAT 180
GTAAATAAAT TGTAATATAG GAAATCTTTT GTTTAATAT AAGAATGAGC CTGTCCAATT 240
TCTGCTGTAC ATTATTAATAA GTTTTATTTC ACAA 275

SEQ ID NO:1837

SEQUENCE LENGTH:269

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02087

SEQUENCE DESCRIPTION:

GATCCGAAGA GGAACCTCTG GTCATCTTTA ACAAGAAAAT CAGCAAGAAC CCTACCTTTA 60
 AGTTATTAAA GGACAAAGTC AAGCTTGTGA AATGAACATT TGTGTATTTA AAANTTGAAT 120
 CCATTCTGCT GACTTCTTAC TTTCACCTGCT GTTTATAAAA TGTGTAATGA ATTCTAACAA 180
 CTCAAATTTT GCTTTTGTAC GCNGTATTTT TANGTTANGN AAATATATTT NTGGTATAAC 240
 TTTTATGCGA NAAATAAAAT ATATTCTGN 269

SEQ ID NO:1838

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02088

SEQUENCE DESCRIPTION:

GATCTCATTG TTTATTAAAC TGTATTCTGT TTACATGTCT TTAAACAGT GGTCTTTAAA 60
 TTGTAAGCTC AGGTTCAAAG TGTGGTAAT GCCTGATTCA CAACTTTGAG AAGGTAGCAC 120
 TGGAGAGAAT TGGAAATGGT GGCGGTAATT GGTGATACTT CTTTGAATGT AGATTTCCTA 180
 TCACATCTTT AGTGTCTGAA TATATCCAAA TGTTTTAGGA TGTATGTTAC TTCTTAGAGA 240
 GAAATAAAGC ATTTTGGGA AGAATAAA 268

SEQ ID NO:1839

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02089

SEQUENCE DESCRIPTION:

GATCTATCTA AATATATTAA GTAAAATTAC ACCATTCACT TGTTGGGAAA ATAATCTTTG 60
 GTTTGGAAGA TATTACATA ATGGGCATCT TAGAATCATA AATCACATGA AATGAGAGAC 120
 AATGCAATAT TGTATAATTC CTGGATGATG CAATTGTTTT AATTGANTTT TCAAGTGCCA 180
 TTATAAAGTT TTAATAATTA TCAATATGAG TTGGTGCCCTA ATTTTNNNTT TCCTAAAAAT 240
 AAAATTTTTC CTTTTATGA GTAAA 265

SEQ ID NO:1840

SEQUENCE LENGTH:261

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02090

SEQUENCE DESCRIPTION:

GATCATAAAA CCTTCATTCC ATAGGTACCC TTTATCCTCA CAGATACAGA GACACCAAGA 60
 AGAATCTGGA CAAATAGGAC TTGCTAAGTT CTCCACAGTT TATTACCATT AGATTATGTC 120

CTTTTGTNCT CTGATTATAC TTCTGCATAA GACTGTACAT AAAANTACAC AAGTTTTCCT 180
 ATTTNTTTTT TGTCTTCATT TCTGAAGATT CCTGTCATGT AAAACTTACA GTAAATAAAT 240
 GTGTGTGCTT TTNTCAATAA A 261

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SEQ ID NO:1841
 SEQUENCE LENGTH:263
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02091

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SEQUENCE DESCRIPTION:
 GATCAGGTTA GGGCGAGCGC TACCTCTCCA GCCTCAGCTC TCAGTTGCAG CCCTGCTNAT 60
 GCCTGCTTGG ACTTGGCCCC TGCCACCTCC NGCCTCAGGT GTCCGCTATC CACCAAAAGG 120
 GCTCCCTGAG GGTCTGGGCA AGGGACCTGC TTCTATTAGC CCTTCTCCAT GGCCCTGCCA 180
 TGCTCTCCAA ACCACTTTTT GCAGCTTTTT CTAGTTCAAG TTCACCAGAC TCTATAAATA 240
 AAACCGACA GACCATGAAC AAA 263

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20

SEQ ID NO:1842
 SEQUENCE LENGTH:264
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02092

25

SEQUENCE DESCRIPTION:
 GATCAGAAAG AAACCTTTTG TAGCAATATC AAGAATCTAG TTTCATCTGA GAACTTCTGA 60
 TTAGCTCTCA GTCTTCAGCT CTATTTATCT TAGGAGTTTA ATTTGCCCTT CTCTCCCCAT 120
 CTTCCCTCAG TTCCCATAAA ACCTTCATTA CACATAAAGA TACACGTGGG GGTCACTGAA 180
 TCTGCTTNAN NATCCTGAAA GTTTCTGGGG CTTAAGATTC CAGACTCTGA TTCATTAAAC 240
 TATAGTCACC CGTGTCTGT GAAA 264

30

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SEQ ID NO:1843
 SEQUENCE LENGTH:246
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02093

40

SEQUENCE DESCRIPTION:
 GATCAAAATGT CACACAGCAG TTTCCTTGCA ACACTTTCAG CTCCCCATGC TCCAGAATAC 60
 CCACCCAAGA AAATAATAGG CTTTAAACA ATATCGGCTC CTCATCCAAA GAACAACTGC 120
 TGATTGAAAC ACCTCATTAG CTGAGTGTAG AGAAGTGCAT CTTATGAAAC AGTCTTAGCA 180
 GTGGTAGGTT GGGAAAGGAGA TAGCTGCAAC CAAAAAGAA ATANATATTC TATAAACCTT 240
 CAGAAA 246

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SEQ ID NO:1844
 SEQUENCE LENGTH:243
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02094

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SEQUENCE DESCRIPTION:

GATCTGTGTG CATGNTGTG TTTGTGTATA TATACATATC TAGGGCTAGT ACTTAGTTTC 60
 ACACCCGGGA GCTGGGAGAA AAAACCTGTA CAGTTGTCTT TCTCTNATTT TNAATAAAAT 120
 AGAAAAATCG CGCACTTGGC GTCCCCCCCC CACCCCCTTT TTTAAACAAG TGTTACTNNN 180
 NCCGGGAAAA TTTTCTGTC TTTGTAATTT TAAACTTTA AAATAAATTG GAAAAGGGAG 240
 AAA 243

SEQ ID NO:1845

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02095

SEQUENCE DESCRIPTION:

GATCTAGTGA ACATTGACC TCCATTACGG AGAGTTTCCT ATGTTTCACT GTGCAAAATAT 60
 ATCTGCTATT CTCCATACTC TGTAAACAGT GCATTGACTG TCACATAATG CTCATACTTA 120
 TCTAATGTTG AGTTATTAAT ATGTTATTAT TAAATAGAGA AATATGATTT GTGTATTATA 180
 ATTCAAAGGC ATTTCTTTTC TGCATGTTCT AAATAAAAAG CATTATTATT TGCTGAGAAA 240

SEQ ID NO:1846

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02096

SEQUENCE DESCRIPTION:

GATCTAAGCA GCGTTCCAC AGCCCCCTCT AGATTCTTGG AGTTCCGCAG AGCTTACTAT 60
 ACGCGGTCTG TCCTAATCTT TGTGGTGTTT GCTATCTCTT GTGTCAAATC TGGTGAACGC 120
 TACGCTTACA TATATTGTCT TTTGTCTGCT GTNTGACAAA CGCAATGCAA AAACAATCCT 180
 CTTTCTCTCT CTTAATGCAT GATACAGAAT AATAATAAGA NTTTCATCTT TAAATGAAA 239

SEQ ID NO:1847

SEQUENCE LENGTH:231

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02097

SEQUENCE DESCRIPTION:

GATCCATCCT CTCTCCTAGC TGAGTAAATC CGGGTCTCTA GGATGCCAGA GCAGCGCACA 60
 CAAGCTGGGA AATCCTCAGG GCTCCTACCA GCAGGACTGC CTCGCTGCCC CACCTCCCGC 120
 TCCTTGGCCT GTCCCCAGAT TCCTTCCCTG GTTGACTTGA CTCATGCTTG TTTCACTTTC 180
 ACATGGAATT TCCAGTTAT GAAATTAATA AAAATCAATG GTTCCACAA A 231

SEQ ID NO:1848

SEQUENCE LENGTH:231

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02098

SEQUENCE DESCRIPTION:

GATCCAAAAT GCTGACAGGT TCAAACAAA TTGGAATTGA AAATCAGAGT GCGTTCAAGA 60
 GTATCAACA ATACTATCTT GTTACTTGCT TATTACCTTA GTAGACTGGA AGCAACACTT 120
 CACACAAAAA AAGGGTTTGG ATGTAATTC GGATAAGAAG AGATGTTTCT GTAAAGTCTT 180
 TCCTGAGANG CATATTATT GAGAAAAACA CATATTCTG TTTTAGTAA A 231

SEQ ID NO:1849

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02099

SEQUENCE DESCRIPTION:

GATCTACCAT GTAAATGTT GTAGAGATAG AGCCATATAA CGTCACGTTT CAAAACACTAGC 60
 TCTACAGTTT TGCTTCTCCT ATTAGCCATA TGATAATTGG GCTATGTAGT ATCAATATTT 120
 ACTTTAATCA CAAAGGATGG TTTCTTGAAA TAATTTGTAT TGATTGAGGC CTATGAACTG 180
 ACCTGAATTG GAAAGGATGT GATTAATATA AATAATAGCA GATATAAA 228

SEQ ID NO:1850

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02100

SEQUENCE DESCRIPTION:

GATCTACCGG CCCCCTGGG GTGCCCTTGG GGAACCTC TCCTTCACCA TACCCCTGGG 60
 CACCCCTGA CAACTTCTGC ACATACTGGG GCCCTGCTTA TTNTCCAGG ACAGGCTCCT 120
 TAAAGCAGAG GAGCCNGTNC TGGGAGCCCC TTCTCAAACCT CTAAGACTT GTTTTCATGT 180
 CCCACGTTCT CTGCTGACAT CCCCATAA AGGACCCTAA CTTTNGGNNN TNAAA 236

SEQ ID NO:1851

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02101

SEQUENCE DESCRIPTION:

GATCTATGGT TTCTGCCTAC CCAGGATAGT CTTGTCTCTA GACAATGTAT TGATGATGCA 60
 AATGTTCTGG AACTAAATAG TGGTGATGGT GGCACAACAC TGTGAATGTA CTAAATGTCA 120
 CTGATTTGTA CGTATTTAAT ATGAATTAAT TGTTAAATG GTGAATTATA TTTATGTATA 180
 TTTNACCATA ATAAAAATAT GCATTGGAAG ATGCATTTT TGTGAAA 227

SEQ ID NO:1852

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02102

SEQUENCE DESCRIPTION:

5 GATCTTTGGA CCAGTTTCTA GCAAAGTTGT GTTTGAAAGA TACTCTATTA AAGAAGACTG 60
 TGGAAATCTTT TTATCGGTGC CCATTATATC CTTAAGTTTG GATATTTAGC TGACCTTCGC 120
 TTTAACATAG GTCTAATTA TTTGCCGTGT CATTTTCCAT ACAAATCAGT TGATTTAAAA 180
 AAGTTCATTT CTCATACTGT GCATTAATAA AAAAATTGGA ACAATTTAAA 229

10 SEQ ID NO:1853
 SEQUENCE LENGTH:224
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02103
 SEQUENCE DESCRIPTION:
 15 GATCTCCTGT TTTTTCAGG CTCCTAAAGT AACATCAGCC ATNTTNAGA TTGGTTCTGT 60
 TTTGCTACCT TCCCACTGGC CTCAGTGAG CCAAGAAACA CTGCCTGCCC TCTGTCTGTC 120
 TTCTCCTAAT TCTGCAGGTG GAGGTGCTA GTCTAGTTTC CTTTTGAGA TACTATTTTC 180
 ATTTTGTGA GCCTCTTTGT AATAAAATGG TACATTTCTA TAAA 224

20 SEQ ID NO:1854
 SEQUENCE LENGTH:223
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS02104
 SEQUENCE DESCRIPTION:
 GATCAAGGCC GGACCCCACT GCCCACTGC CCAACTGATA GCCACGCTGA NNGAATGGAA 60
 GGAAAAATTG CTTGGACCTG CAAGCCCCGC TGTACAAGAA AATAATTAAG AAACTTTGG 120
 AGAGTTAGCT ACTAGCTGCC TACGTGTGN CATTTGCTAT ATAGCATACT TCTTTTTTCC 180
 30 AGTTTCAATC TAACTGTGAA AGAAGTCTG ATATTTTGTG TTN 223

35 SEQ ID NO:1855
 SEQUENCE LENGTH:227
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02105
 SEQUENCE DESCRIPTION:
 40 GATCCTAGTA ATTGCCTAGA AATATCTTTC TCTTACCTGT TATTTATCAA TTTTCCCAG 60
 TATTTTATA CGGAAAAAAT TGTATTGAAA AACTTAGTA TGCAGTTGAT AAGAGGAATT 120
 TGGTATAATT ATGGTGGGTG ATTATTTTTT ATACTGTATG TGCCAAAGCT TTACTACTGT 180
 GGAAAGACAA CTGTTTAAAT AAAAGATTGA CATTCCAAAA AAACAAA 227

45 SEQ ID NO:1856
 SEQUENCE LENGTH:219
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02106
 50 SEQUENCE DESCRIPTION:
 GATCTATACA AAGTCTTTGA GAGGTGTTAA ATATGGTTAT TTATGCACTG TGGGATGTGT 60

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TCTTCTTTCT CTGTATTCCG ATACAAAGTG TTGTATCAAA GTGTGATATA CAANGTGATC 120
 CAACATAAGT GTTGGTAGCA CNTAAGACTT ATACTGCCT TCTGATAGTA TTCCTTTATA 180
 CACAGTGGAT TGATTATAAA TAAATAGATG TGTCTTAAA 219

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SEQ ID NO:1857
 SEQUENCE LENGTH:219
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02107

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SEQUENCE DESCRIPTION:
 GATCAAGAAA GACAAAAAGC CAGCCTGCAG CAAGCACTTT GGAGAGCAAA TCTGNAAAGA 60
 GAGTAACGCG GAGTGTCAAG AGGTGTGCAG AAAATCCAAA GAAGGCTGAG GACAATGTGT 120
 GTGTCAAGAA AATAAGAACC AGAAGTCATA GGGACAGTGA AGATATTTGA CAGAAAAATC 180
 GAACTGGGAA AAATATAATA AAGTTAGTTT TGTGATAAA 219

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SEQ ID NO:1858
 SEQUENCE LENGTH:219
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02108

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SEQUENCE DESCRIPTION:
 GATCTGTCGG AACCAGGACA CAAAAGCAGC AAGAAGCGGG GAGAGAGAGG GATAGAAAAC 60
 AAGCGCAGGA GAGCCTGCGA ACGCAAAANT GAATGAGGGC TTTTGTGGC TGGGGATGGG 120
 TTTTGGTTTT GGGGTTTTTT TTTTNAATTT GTTTTGACTT CGTACAGGGT ACTTTTCCC 180
 AACCTCATCT NTCAGAAATC CATGTGGGNT TCCTGGAAA 219

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SEQ ID NO:1859
 SEQUENCE LENGTH:217
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02110

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SEQUENCE DESCRIPTION:
 GATCTGAAGA AATTACCAAA CATTAAAATG AGANAAATTT GCGCTAATGA TGCAATTCCC 60
 AAGACGTGCA AGAGGAAAAC TATTATAACT GTAGACCAAG ATTTGGGGGA ATTGGAACTA 120
 AACGATGAAT CAAGTGATTC AGATGAGGAA ATGACTGCAG TGGCCTAATT GTCTTCACTT 180
 GAATTGAAAA TAAATAATTT GAGAGCTTCA AATTAAA 217

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SEQ ID NO:1860
 SEQUENCE LENGTH:216
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02111

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SEQUENCE DESCRIPTION:
 GATCCATTTC TTAAAATAC TGACATATAG AGTTGTACCT TATATAGAAT ATAGTTGTAT 60
 CTTGAAGTCA ACATATTAAT TTATTCTCAA AATTATGTAT TTNCAGATTG TACTTGTAAG 120

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TTTCAAAGAA AAATTACCGT CTTTTCATAT TGACCTGGAA ACTAAATAGG ATGTGATTCA 180
GCTACATTAA TTTCTTAATA CAATCTAGGA AAGAAA 216

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SEQ ID NO:1861
SEQUENCE LENGTH:213
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02112

SEQUENCE DESCRIPTION:

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GATCCTTTTC TTGAAAGAAT AACAGAAAAT GTGTCATCCA TTTTTCAGAA TATAACCACT 60
CAAGCTACTG GCACATAGTG AAAGATTACT TCTGACATTC CATTNCTCTT CTTTGGAAAA 120
TTAGTATNGT AATTAAATGT ACTTTTGGAA AATTAATAGA ATTATTTAAA TTACAGTATA 180
TGTTNGCAAAA TATATCACTT TTGATACAAT AAA 213

SEQ ID NO:1862
SEQUENCE LENGTH:210
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02113

SEQUENCE DESCRIPTION:

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GATCTATCTC ATCAACAAC ACAATGAAGA TATTTTAGAG TACAAAAGAA GAAATGGGCT 60
GGAATAAACT TTTGAAACAC TAATGTAGTA TGCTCCGTAT AGTGATTGTA GCTGTTCCCTC 120
TGGATTACCC ATCTGTTGAG TTGTAAATGT GNGANAAAAA GTTATATGTG AATATATATC 180
AAGCCAGCAT TTGTATTTTG CATCATTAAA 210

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SEQ ID NO:1863
SEQUENCE LENGTH:209
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02115

SEQUENCE DESCRIPTION:

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GATCGGGGCT GCCAGAGGGN TAGAAGCGAG GGCACCAGCA GTTGTGGGTG GGGAGCAANG 60
GAAGAGAGAA ACTCTTCAGC GAATCCTTCT AGTACTAGTG GAGAGTTGA CTGTGAATTA 120
ATTTTATGCC ATAAAAGACC AACCCAGTTC TGTTTNNNC TGTAGCATCT TGAAGAGAAA 180
AATTATAATA AAGCCCCAAA ATTAAGAAA 209

SEQ ID NO:1864
SEQUENCE LENGTH:208
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02116

SEQUENCE DESCRIPTION:

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GATCTGGAGC AACAGCTAGG AAATATCATT AATTCTGCTC TTCAGAGATG TTAATAATAA 60
ATTACACGTG GGAGCTTTCC AAAGAAATGG AAATTGATGG GAAATTATTT GTCAAGCAAA 120
TGTTTAAAT CCAAATGAGA ACTAAATAAA GTGTTGAACA TCAACTGGGG AATTGAAGCC 180

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AATAAACCTT CTTCTTAAC CATTCAAA

208

SEQ ID NO:1865

SEQUENCE LENGTH:201

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02117

SEQUENCE DESCRIPTION:

GATCTATACT TAGAATGCAA TGTNGACAGA GGGCAGTTAA AATATCCAAG ATGTATTCCA 60
 AGACAAAGCA AACAAACAAC TGGAAGTGGT AATCAATTCA ACAGGCCTTC TGAATTNTCT 120
 GAAGCNAAG CAACGTTTGC CATNNGATAT TTGTGACACT TTGGCAAATG GAAAAATAAA 180
 CCAATTTATA CGTGCAATAA A 201

SEQ ID NO:1866

SEQUENCE LENGTH:200

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02118

SEQUENCE DESCRIPTION:

GATCATGAAG GTATCCACAC TTCCCTTGC ATTCCTTCT TAACTCTCTG TTACACGTCA 60
 TTGAAACTAC ACTTTTTTGG TCTGTTTTG TGCTAGACTG TAAGTTCCTT GGGGGCAGGG 120
 CCTTTGTCTG TCTCATCTCT GTATTCCCAA ATGCCTAACA GTACAGAGCC ATGACTCAAT 180
 AAATACATGT TAAATGGAAA 200

SEQ ID NO:1867

SEQUENCE LENGTH:202

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02119

SEQUENCE DESCRIPTION:

GATCACATTT TGAAATGCCT AAAAGACTTT ATTGTTCTAA TTATCCAGAT GTACCTTTGT 60
 AAAATAGCTC TTTTATGAAT TAGCTGATAA GGCTGTATGT TTCTGGAACA AAATATTGGT 120
 CATCTAAAN CTTTCTGTTT NCTGGGGTCT GGGAAAATAG AAAATAAGAT TTCAAATATT 180
 AAATAAGCTT AANGGCACCA AA 202

SEQ ID NO:1868

SEQUENCE LENGTH:200

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02120

SEQUENCE DESCRIPTION:

GATCAGGCCC TTCTTCCAC AGCAATAGTC CCCAATACGT AGATTTTTC TCTTCTGTAT 60
 GTGACAACAT TTTTGTACAT TATGTTATTG GAATTNCTT TCATACATTA TATTCCTCTA 120
 AAACCTCTCA GCAGACGTGA GTGTGACTTT TTGAAAAAAG TATAGGATAA ATTACATTAA 180
 AATAGCACAT GATTTTCAAA 200

SEQ ID NO:1869

SEQUENCE LENGTH:194

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02121

SEQUENCE DESCRIPTION:

GATCTNTNTG TTCATTGTAT TCTTTTNTC TCAAGAGTTC CATTTAATGG AAATAAAACG 60
GTATAATTAA TAATTGTCTA GGGGGGAAAA ATGAAGCAAA TNTCATTGGA TATTTTAA 120
GGTCTCCACA GAGTTTATGC CATATTGGAA TTTTGTGTA TAATTGTCAA ATAAATATTT 180
TGGTGANGCA TAAA 194

SEQ ID NO:1870

SEQUENCE LENGTH:190

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02122

SEQUENCE DESCRIPTION:

GATCCAATAC TATTTAGTTT ATTATTGAAA TTGGAAGGAT TCATTGAGCA GCATAGAAGT 60
TTGTTTACAT GTTACTTTGA GATGCTAGGT ATTGTGGAA TAAAAAGAA TCAGGCTCTT 120
TTGTACTNAN TTTTAAATC TGTGATGCTT NTCAAATTA ATTCATAATA AATTGATGCA 180
ATTCATAAA 190

SEQ ID NO:1871

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02123

SEQUENCE DESCRIPTION:

GATCGAACAG TTTTGAAGCT ACTGTGTGTG TGAATGAACA CTCTTGCTTT ATTCCAGAAT 60
GCTGTACATC TATTTTGGAT TGTATATTGT GTTTGTGTAT TTACGCTTTG ATTCANNAGT 120
AACTTCTTAT GGAATTNATT TGCATTGAAC ACAAACCTGTA AATAAAAAGA AATGGCTGAA 180
AGAGCAAA 188

SEQ ID NO:1872

SEQUENCE LENGTH:184

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02124

SEQUENCE DESCRIPTION:

GATCCTATTT ATTTGTTTAG GCCATCTTTA ATTTCTTTCA GCAGTGTTTT GTAGTTTCCA 60
TTAGAGATTT TCCATGTCNT TTGTTAAGTT TATTCCTAGG TATTTTATTT TTIATGGTAT 120
TNTATTATAA TCCTNNGATG TCTATTATAT AGAAATATAA TTNATTTTNG TTATTGACTG 180
NNNN 184

SEQ ID NO:1873

SEQUENCE LENGTH:181

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02126

SEQUENCE DESCRIPTION:

GATCCAAGTN CTGACTTTTC CCCCTGACAG CTGTGTGACC TTCGTGAAGT CGCCAAACCT 60
CAAATGAGCC CCAGTCATTG CTAGTAAGAC CTGCCTTTGA GTTGGTATGA TGTTCAGTT 120
AGATAACAAA ATGTTTATAC CCATTAGAAC AGAGAATAAA TAGAACTACA TTTCTTGCAA 180
A 181

SEQ ID NO:1874

SEQUENCE LENGTH:181

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02127

SEQUENCE DESCRIPTION:

GATCTTAAAT TTTCTCATCT CAAAAAATA TGTAAGTGA TAGATATGTT AAATAGCTNN 60
TATGTATTTT GCAATGTGTA GTGTATATAT ATAAACATCA CACAGTACAC CATAAATATA 120
TTTAATTTT GTCAATTACT CTITAAACCT TAATAAAGTT GATAAACAT TCTTTTTTAA 180
A 181

SEQ ID NO:1875

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02128

SEQUENCE DESCRIPTION:

GATCAGGTTA GCAATGATG TAAAGAAGC TTTATTGTCT AGTTGTTTTT TTTCCCCCAA 60
GACAAAGGCA AGTTCCCTA AGTTTGAGTT GATAGTTATT AAAAGAAAA CAAAACAAAA 120
AAAAGGCAAG GCACAACAAA AAAATATCCT GGGCAATAAA AAAANTATTT TAAACCAA 179

SEQ ID NO:1876

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02129

SEQUENCE DESCRIPTION:

GATCCGGGAG CACACCGTTT CCTGATTGCT CAGGGACTCA TCTTCCCTC CTTGGTGATT 60
CCGCAGTGAG AGAGTGGCTG GGGCATGGAA GGCAAGATTG TGTCCATTC CCCCAGTGCG 120
GCCAGTCCG CGCCAGGATG GCGANGGAAC TCAATAAAGT GCTTTGAAAA TGCTGAAA 178

SEQ ID NO:1877

SEQUENCE LENGTH:175

SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS02130

SEQUENCE DESCRIPTION:

5 GATCATTCTC CGAAAGCAAC TCCTGACAAT TAAGCATTTT TTTCTCCAAA TACAAAGTAT 60
ATTCTCTTTA TTGGAAAATA AATTAATAAA TATATTCTGT ATTTNNCTC TCCGTGAAAA 120
ACAAAAGAGC CTCTGACATT ACTGTCTCTC AGTGTGGTT CAGATTGAGG CTTN 175

SEQ ID NO:1878

10 SEQUENCE LENGTH:172

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02131

15 SEQUENCE DESCRIPTION:

GATCAATCCT TCTTATGTTT GCTTTAATGT GTATTGAAGA AAAGCACTTT TAAAAAGTA 60
CTCTTTAAGA GTGAAATAAT TAAAAACCAC TGAACATTG CTTTGTTC TAAAGTTGTT 120
CACATATATG TAATTTAGCA GTCCAAAGAA CAAGAAATTG TTTCTTTTCA AA 172

20 SEQ ID NO:1879

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS02132

SEQUENCE DESCRIPTION:

30 GATCTGATTG TTTAAAAGTA CACAGCACCT CCCTCCCCAC TCTCTTTGC TCCTGCTTTC 60
ATCAAGTGAA AACTCCCTGA GGCCTCCTCA GAAGCTGAGT AGAGGCCAGC ACTATGCTTC 120
CTGTACAGCC TGTGGAACCA TGAGGCAATT AAACCTCTTT TCTTTATAAA 170

SEQ ID NO:1880

SEQUENCE LENGTH:168

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS02133

SEQUENCE DESCRIPTION:

40 GATCAGAAAA ATTCATCTTT TTTAACCTG CCCTAATTTT TCTTGAGGAA TTAATAGAG 60
CAAACATTTT TCAGGTTATG CTTACAATAA AATATACTTA AGAAAATGAC TGAAGATGTA 120
TGTTTTTGAA TGTTTTGATT AAATAAATGT ACACATTTAG AACACAAA 168

SEQ ID NO:1881

SEQUENCE LENGTH:168

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02134

SEQUENCE DESCRIPTION:

50 GATCAGCCTC CCTGTAAGCC AGTTATCAGT ATCCAAGTGC TTAAACACAG GCTTCTCAGA 60
AGAAATCATT TTTATTCCTA CCATTATTC ATACCAAAGC ATCATTATGT GCTACAGTTC 120

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CAATTTCTTA CACAAGAATG AAAAGGGTTA CCAATGCAGC AAGTTAAA 168

5 SEQ ID NO:1882
SEQUENCE LENGTH:167
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02135
10 SEQUENCE DESCRIPTION:
GATCTTACTG TAAGTTGAAG GGAGTTTTCG CCTAACTCAT GGATTGTGCA AGAATGAACT 60
GCTGTTGGGT TTGACTGACT GTCGATGGAT TGTGGTGTGG TGTATCTNAA GGCTATTGAA 120
TGCAACTTAC AATGCTTAGG TAAAAATCTT TATNCTTTTA GTATAAA 167

15 SEQ ID NO:1883
SEQUENCE LENGTH:165
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS02136
SEQUENCE DESCRIPTION:
GATCCTTGAT GAGCCAACAT TGCACGTGG ATACATATCT ATGTTTACGC GCTATTAGAA 60
CAGAAGGGCG TGTATATAGA AATGTTGCTT TGAAGCAATA TTGCAAAAC ACNCAGACTN 120
25 CAGNATCTGT ATTTGGAAAA AATAAAACAG GTTCTTGTG CTAAG 165

SEQ ID NO:1884
SEQUENCE LENGTH:168
SEQUENCE TYPE:nucleic acid
30 TOPOLOGY:linear
CLONE:HUMGS02137
SEQUENCE DESCRIPTION:
GATCTGACCT CCACGGAGCC GCTGTCCCG NCCCCCTTGC TTCCCGTCTG TCTGTCCTGT 60
35 CTGATTCTNT TAGGTGTCAT GTTCTTTTT CTGTCTTGTG TTCAACTTTT TTTAAAACTA 120
GATTGCTTTG AAAACATGAC TCAATAAAG TTTCTGNCC AATTAAA 168

SEQ ID NO:1885
SEQUENCE LENGTH:163
40 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02138
SEQUENCE DESCRIPTION:
45 GATCAGCATG GCTTCACAAG CCAGCTGTTG GGTTCCTAT GTCACGTGG CTCAGTCACA 60
TCCCTGCGTG TAACTGTCT GCGGGGCACA TATGTATCCA TTTAGAGCTA AAGGAATCAG 120
TGTACACTAC AGCTAATCCT AATAAATCCG ATGTTTTCGG AAA 163

50 SEQ ID NO:1886
SEQUENCE LENGTH:159
SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS02139

SEQUENCE DESCRIPTION:

5 GATCTAGCAG CATGCAAACA CATCACCTAA ACTACAAAAG AAAGGTCCTC ACTGTCTCTA 60
 AAAAATAAAC TCATTAACCTT TGAGTTATTT GCAGACAGCC AAATCACCCA GGGCAACTTT 120
 AAAGAGTCAG AAAATAAAAC TTTCCCGTTG TATGACAAA 159

10 SEQ ID NO:1887

SEQUENCE LENGTH:154

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02140

15 SEQUENCE DESCRIPTION:
 GATCATGGAG GAAAAAGGTA CTGGATAAAA GTAAACTTCA AACCTTAGGG CGGGANACTA 60
 AAACCAAAAT ACATGTATTA TTTATAGAAA ATATTTTCTG TTTTAATCTT TTCTNTTTAA 120
 ACAAGGACTC ATACTTAAAA AAATGTTTAG CAAA 154

20 SEQ ID NO:1888

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS02141
 SEQUENCE DESCRIPTION:
 GATCTCTGAT GACCTAACCT AAGCAAAACC ACTGAGCTTC TGGGAAGACA ACTAGGATAC 60
 TTTCTACTTT TTCTAGCTAC AATATCTTCA TACAATGACA AGTATGATGA TTGCTATCA 120
 AAATAAATTG AAATATAATG CAAACCATAA A 151

30 SEQ ID NO:1889

SEQUENCE LENGTH:150

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS02142

SEQUENCE DESCRIPTION:

40 GATCTATATT CTTCTTAATT TTTATGGCTA TATTTAATGT TTTCCATCAT TGTGCCTTTA 60
 AAAAGTATAT GTACATGTAT GCATAAATTT ATGTGAAGTT ATATATANGN NTCCGTTATT 120
 CCAGATTAAA GTTTATCTTT AGTAATCAAA 150

45 SEQ ID NO:1890

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02143

SEQUENCE DESCRIPTION:

50 GATCAAAAAT ATGTGACCTT AATGAGATTT TTATGATTTT TAAAGTAACA ATAAAAGCAG 60
 TTTTATAGAGT TGAGTTCCAG AGAGGGCAGG GCAATGGCAG TNACATGTTT GTCATTTTAA 120

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TAATAAATAA CATCTATTGA GTNCTTAAA

149

SEQ ID NO:1891

SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02144

SEQUENCE DESCRIPTION:

GATCCGCGGG GACCCGTCCG AGGGGGCTGT CATGCGGTTT CCAAGGTGCA CATTNCCAC 60
 GGAAACAGAA CTCGATGCAC TGANCTGCTC CGCCAGGANA GTGAGCGTGT AGGTNCCTGA 120
 GGAATAAAAT GTTCCGATGA TGTGGAAA 148

SEQ ID NO:1892

SEQUENCE LENGTH:147

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02145

SEQUENCE DESCRIPTION:

GATCCCCGTT CTTCAAGCTT CTCTGCTCAG TGTCTACTAA CGACCGACAT TTGCTAATGT 60
 AAATAATAGT AAATNATTGA GAATTCTAAT TCTTTTACAC AGTCTGTTTT TAATCTATTT 120
 TAATTAAATA AAATCTATGA CTCTAAA 147

SEQ ID NO:1893

SEQUENCE LENGTH:146

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02146

SEQUENCE DESCRIPTION:

GATCTGGGAG TAAACTTAAC ATTCACGTG TCTCTGCTCT GCATCCGCCA TTTGTGTGTG 60
 TTTCTGGACT GTGGGCTGTG TGTACCTTGG TTGGTGACTC AGTGAGAAGA AGCAGGAATN 120
 CCAAAGATAC TGTGAATNTT CTGAAA 146

SEQ ID NO:1894

SEQUENCE LENGTH:144

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02147

SEQUENCE DESCRIPTION:

GATCTAAATG TCTAGTTTTG TATTCTTTTG TGTGTGTTCA CTGTTTCTCA GTATTACCAC 60
 TTGAATAATT CTCTGTACAG GGGGGTTTGT GCTATACACT GGGATGTCTA ATTGCAGCAA 120
 TAAAGCCTTT CTTAAAAAAG GAAA 144

SEQ ID NO:1895

SEQUENCE LENGTH:141

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02148

SEQUENCE DESCRIPTION:

GATCTTGGAA ATGCTTGAAG ACCACAAGGC TGAAAAGTGC TTTGCTGGAG TCCTGTTCTC 60
AGAGCTCCAC AGAAGACACG TGTTTTGTGA TCTTTAAAGA CTTGATGAAT AAACACTTTT 120
TCTGGTCAAT GTCAAANNA A 141

SEQ ID NO:1896

SEQUENCE LENGTH:142

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02149

SEQUENCE DESCRIPTION:

GATCCAGATA AACTTTCCTG TCATGTGTTA GAACTTTATT ATTATTAATA TTGTTAACT 60
TCTGTGCTGT TCCTGTGAAT CTCCAAATTT TGTACCTTGT TCTAAGCTAA TATATAGCAA 120
TTAAAAAGAG AGAAAGAGGA AA 142

SEQ ID NO:1897

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02150

SEQUENCE DESCRIPTION:

GATCAAAGTG TGGGATGNGC TGCAAGACGT AGAACCTACC TGCCCTGCCC CCGTCCCCNC 60
CCTTCCTTAT TTATTCCTGC TGCCCCAGAA CATAGGTCTT GGAATAAAAT GGCTGGTTCT 120
TTTGTITTCC AAA 133

SEQ ID NO:1898

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02151

SEQUENCE DESCRIPTION:

GATCTAAGTT GCATCTTTAA TCCTGGTGGT CTGCTTCT GATTTTAAAT TTGTATCCTT 60
TTCTATTAAG ATATATTTGT CATTTTCTCT TGAATATGTA TTAAATATC CCAAGCAATC 120
CAGTAACAAA 130

SEQ ID NO:1899

SEQUENCE LENGTH:247

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02152

SEQUENCE DESCRIPTION:

GATCGAGGAG ATGCCCTCTG AACGCCTGTC CCGGAGCACC CGCCAGCGGG CAGCCTGTGC 60
CCAGCTCAAC GACTTCCTCC AGGAGTATGG CACTCAGGGG TGCCAGGTCN TNAGGGCTGC 120

CCTCCCACNN CCGCTGGGAG GAACCTNAAC CTGGGAACCA TGAAGCTGGA AGCACTGCTG 180
 TGTCCGCTTT NATGAACACA GCCTGGGACC AGGGCATATN AAAGGCTTTT GGCAGCAAAG 240
 TGTCAAA 247

5

SEQ ID NO:1900
 SEQUENCE LENGTH:132
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

10

CLONE:HUMGS02153

SEQUENCE DESCRIPTION:

GATCTTCCTG CTACCTCTT GGATTCTAAG TGGTTCCAAG CTTAACTTGA GACCTTCCCT 60
 TCAAATCTAA AATTGGCAAA AAGTCACTTA AAATAGTGGA CTTCTGTAAT AAAGGTTGCC 120
 TAAATAACA AA 132

15

SEQ ID NO:1901
 SEQUENCE LENGTH:128
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

20

CLONE:HUMGS02154

SEQUENCE DESCRIPTION:

GATCTACAGG TTNCAATTCA ACCTGTTTCT AGGTTTTTTT GTAAATTTAG TTTTGATTAA 60
 GCATTATAAG CATTTGAGTC TATAAACTTT ATAGTAGCAT CTTTCAGAAT AAACATTTTT 120
 AATTGAAA 128

25

SEQ ID NO:1902
 SEQUENCE LENGTH:132
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

30

CLONE:HUMGS02155

SEQUENCE DESCRIPTION:

GATCCATGAG TTGCCCCTGG TTTCAGTGGC CCAAGTGGTT TGTGCTAACC ACGTCTGTCT 60
 TCACAGCTCT GTGTTGCCAT GTGTGCTGAA CAAAAAATAA AAATTATTAT TGATTTTATA 120
 TTTCAGGGGA AA 132

35

SEQ ID NO:1903
 SEQUENCE LENGTH:128
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

40

CLONE:HUMGS02156

SEQUENCE DESCRIPTION:

GATCCAAGAC AGAATAATGA ATGGACTCAA ACTGCCTTGG CTTCAGGGGA GTCCCGTCAG 60
 GNCGTTGAGG ACTTTTCGAC CAATTCAACC CTTTGCCCCA CCTTTATTAA AATCTTAAAC 120
 AACGGAAA 128

45

SEQ ID NO:1904

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SEQUENCE LENGTH:126

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02157

SEQUENCE DESCRIPTION:

GATCCACAGG GGTGGTGTCA AATGCTATTG AAATTGTGTT GAATTGTATG CTTTTTCACT 60
TTTGATAAAT AAACATGTAA AAATGTTTCA AAAAAATAAT AAAATAAATA AATATGAAAC 120
CTTAAA 126

SEQ ID NO:1905

SEQUENCE LENGTH:122

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02158

SEQUENCE DESCRIPTION:

GATCTACAGA TGAATATTTA ACTCAATAGA AAAATTATTT TAGAACACAT TGTATTGGTA 60
TTACAACCAG ATTATATTCT TGACGTTGAC TTCATTAAAA TTATCTACAA TTTCCTAATA 120
AA 122

SEQ ID NO:1906

SEQUENCE LENGTH:121

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02159

SEQUENCE DESCRIPTION:

GATCTCATGG ATACAAACAG GTGACCTTGC CAATTGGTGC TTTTGTGTG TTTAAGAAAA 60
GAACAGTAGT AACCTTGCTC CCTGGNTACC AATAAAAAAT CTATTATTTT TTTAAAGAA 120
A 121

SEQ ID NO:1907

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02160

SEQUENCE DESCRIPTION:

GATCTGACCC CTGTCAGATG NAAATGATTC ACAGCTCTGG CAGTTCCCAA GTCTGGGGAG 60
GGGTATAGGT TTGAAAGGCT GTTTGAAAGA GGAATGTTTA ATAAAGGCTT TGATTAAAA 119

SEQ ID NO:1908

SEQUENCE LENGTH:121

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02161

SEQUENCE DESCRIPTION:

GATCCGAGCT GGGCCCTATG TTGTGTTCTG NGAAGGAGGC CTTTGCTGTG AACTGCAGTG 60

TTTCATACGA ACCATCTTTC CTAGTGCATG AGAAATAAAG ATTATTTAAG TAATGAGGAA 120
A 121

5 SEQ ID NO:1909
SEQUENCE LENGTH:116
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS02162
SEQUENCE DESCRIPTION:
GATCTCACTT TTCAGGAAAC TAAAAATTTA CCCATTATTG GGAAGCTTAA ATGAATTGAA 60
GCTATGCAAG TCTTTTATAT TATTAAATAT TAAAAAGTAA ACCTGTACTA ATCAAA 116

15 SEQ ID NO:1910
SEQUENCE LENGTH:116
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS02163
SEQUENCE DESCRIPTION:
GATCGATATG CTCATAAAAG TGCTCAATTA TATTTNCTGT ATTTTGTATG NTGTATTTTC 60
CAAGACGTAT ATTATTTTAC TATTAAAGAA AAAAATCATT TTTTTTCCC GAGAAA 116

25 SEQ ID NO:1911
SEQUENCE LENGTH:124
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
30 CLONE:HUMGS02164
SEQUENCE DESCRIPTION:
GATCCGGGCA TGGGAGACCC CACTTTAGAA AGGGTCGTCA CTCCTTTAAT CCTCTACTCA 60
ACAATGTACT CTTTACTTT TATATTAAAA AAAATAAAAT AAATATGTGC CTAAACCTC 120
CAAA 124

35 SEQ ID NO:1912
SEQUENCE LENGTH:115
SEQUENCE TYPE:nucleic acid
40 TOPOLOGY:linear
CLONE:HUMGS02165
SEQUENCE DESCRIPTION:
GATCCACTTC TACTTAATGA GTAGTAAATA TATTTCNITT TCCTTATGAT TTTCTTACTA 60
TTTNCITTAG CTGCTTTAT TATAAGANTA TAGCATATAA TATAAATAAA ATAAA 115

45 SEQ ID NO:1913
SEQUENCE LENGTH:112
SEQUENCE TYPE:nucleic acid
50 TOPOLOGY:linear
CLONE:HUMGS02166

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SEQUENCE DESCRIPTION:

GATCCAGAAA TTGTGAACAA TGTTTGATT AGTAGCGTGA CTTGCCTTTC CCTTTAAAAA 60
 CATCTTTTAC AAATCTGTCT TGGAAATAAG TCTATTTTCT GCCTTTTGA AA 112

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SEQ ID NO:1914

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS02167

SEQUENCE DESCRIPTION:

GATCCTAATT GCCTAGAAAT ATCTTTCTCT TACCTGTTAT TTATCAATT TNCCCAGTAT 60
 TTTTATACGG AAAAAATTGT ATTGAAACA CTTAGTATGC AGTTGANNNN GN 112

15

SEQ ID NO:1915

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20

CLONE:HUMGS02168

SEQUENCE DESCRIPTION:

GATCAACCGT GAAGCGTAAC AAATCTGTA TTTAGTTTT TTTCTGTTG TGGTGTTTT 60
 TGTITGTTT TTTGTTTTG TAAGATTCTA AATAAATNAA ATACGAGTCA AA 112

25

SEQ ID NO:1916

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS02169

SEQUENCE DESCRIPTION:

GATCAAGACT NCAGTTTGGG AATGCATGGA CACCGGATT GTTCTTATT CCTTCACTT 60
 TGGGGAAAAT CTCNCCNTNT TAAAAAGTG ATAAATTTGG TGTTAGGTCA AA 112

35

SEQ ID NO:1917

SEQUENCE LENGTH:112

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS02170

SEQUENCE DESCRIPTION:

GATCAACGCG ACTGTATTTT GAAACATTCC AGGAAGGTTA CTTCTTGTC AACTTGCCTG 60
 GCAGTGTTG TTCAAANCTT GTATTTAATA AATGANCATC TGACTTTACA AA 112

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SEQ ID NO:1918

SEQUENCE LENGTH:162

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02171

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EP 0 679 716 A1

SEQUENCE DESCRIPTION:

GATCTATCTT AAGAAGTGAC CAGGAAAGAG GTTCATTGAA ATAATCATGC ATGAAGCGCC 60
 AAAGATGCAC CATGTAGAAT TTTCACCTTG TACTGGCAGG CTCGTTTTAC CTGATTCTAG 120
 AATATTAAAG AATCTAAAAA TAAAGGGCAA CTCTGACTTA AA 162

SEQ ID NO:1919

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02172

SEQUENCE DESCRIPTION:

GATCAGGGAA CTAAGCATT TGTGAATTCA CCAGCAAGAT GTACAGNACG CCTGTNTTTA 60
 CATTGTTTT ATGGAAC TAG CAGAATAAAN CATCTATTT AAAAATGCAA A 111

SEQ ID NO:1920

SEQUENCE LENGTH:275

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02173

SEQUENCE DESCRIPTION:

GATCTCGGAG GAAGCCGCCT ACTCCAACCC CAGCCTACCT NTGGTGCACA NATCCGTCCC 60
 ATAGCAAAGC CCCTGCACAG ACTCCAGCCG AGCCACACCC TGGNTATNAG GTGGGCCAGC 120
 GGAAGCGCCT CATCTCCTCG GTGGAGGACT TCACCGAGTT TNTNTGAGGC CGGGGCCCTC 180
 CCTCCTGCAC TGGCCTTGA CGGTATTGCC TGTCAGTGAA ATAAATAAAG TCCTGACCCT 240
 AGTGCACAGA CATAGAGGCA CAGATTGCAG TCAAA 275

SEQ ID NO:1921

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02174

SEQUENCE DESCRIPTION:

GATCAGGACA GAGACTTGGG GGCCATCCTG CCCCTCCAAC CCGGACATGT GTACCTCAGC 60
 TTTTCCCTC ACGTTGCATC AATAAAGCTT CTGTGTTTGG AACAGNTAAA CAAA 114

SEQ ID NO:1922

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02175

SEQUENCE DESCRIPTION:

GATCCCAAGC NTCCCGTCCC TTGGAAAGTN CAGCCAGAAT CTNCGTCCTG ACCCCCGACA 60
 GCCCAGCCTA GCCCACTTGT CATCCATAAA GCAAGCTCAA CCTTGAAA 108

SEQ ID NO:1923

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02176

SEQUENCE DESCRIPTION:

GATCCCCCAG GTTCAGACTG AGCTCCCCCT TCCCAGTAGC TCTTGCATCC TCCTCCCAAC 60
TCTAGCCTGA NTNCTTTNCA ATAAAAAATA CAATTCAAGT TGCTTCTCAT GGATGGCACT 120
GCTTTCCTGA GGACTCAAGG TGCCAAGATG GAGGGGCTGA CTCAGTCCAG CCAACNTTAA 180
ATGAGNACCT ANNNGGTGTA TGGAGCTCTA ACCCATGGGT CCATGGGAAT AAAGCAGTGA 240
ATAGTAACAA TAAATAATTG TAACAGCANA AA 272

SEQ ID NO:1924

SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02177

SEQUENCE DESCRIPTION:

GATCTGACGT TTTCTACGTA GCTTTTGTAT TTTTTTTTTT TAATTNNAAG GAACACTTAT 60
GAAGCCCTGC CATNCCCCTC CCGNGTCTAA TAAAACGTAT AATCACAAA 109

SEQ ID NO:1925

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02178

SEQUENCE DESCRIPTION:

GATCAACTTG TGCTTGCCAG AGGACGCCAA TGAAGTTGA AACACCAACA ATCAGAGATT 60
TTGTTTCTGT TCCTCATTA ATCATGAGCT TTTGTGCCGA GAAA 104

SEQ ID NO:1926

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02179

SEQUENCE DESCRIPTION:

GATCGTGTGT GTAGGTGGTG TTGTGTGGTT TTCCTTTGTG AAGGAGAGAG GGAAACTATN 60
TGTAGCTTGT TTTATAAAAA ATAAAAAATG GGTAAATCTT GAAA 104

SEQ ID NO:1927

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02180

SEQUENCE DESCRIPTION:

GATCCTCCCA CTTCCACCTC CCAAGTAGCT GTGGCTACAG GTGTGTGCCA CCATGTCCAG 60

CTGATTTTNG TATTTTNAGT AGGGACAGTA TTTCTCCATG AAA

103

SEQ ID NO:1928

SEQUENCE LENGTH:106

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02181

SEQUENCE DESCRIPTION:

GATCTAAATC TCATTTTATG CTGTATTTTA TATCTNAGTT GTNTTTGAAA ACGTTTGTAT 60

TTTTGGAAAC ACATCAAAAT AAATAATGGC GTTNTTGTGA TGCAAA 106

SEQ ID NO:1929

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02182

SEQUENCE DESCRIPTION:

GATCTGGACG AATGATACCA AACGTTTCTT TCTAACATTG TATTTTATAA CTCTGGCCTA 60

TGATTGTNTT GTGTCTTGCA TTAACAAAAA AAATTTGAGA GTGGTAGAAT TACTTCTGTT 120

ATCTGAAATA CCTGAGATGC ACTTTAACT GTTGAAATGT AAGCNCCTGAG GGCAGGGNCC 180

GTATCTNATT TACTGTAGT ATCCGTTGCA TCTAGTGTGG TGCACCTGGC ACACAGTAGG 240

CACTCAATAA ATATGTATTG ATTAANCA AA 272

SEQ ID NO:1930

SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02183

SEQUENCE DESCRIPTION:

GATCTACAGC TCCTGGATAA TTGCTTGATT CTCGCCAGAG ACTGTCAATA TTTNATTCAT 60

TGCCATTACC AATAAATCAT TGCTTTTGTT NAGATGGTAT CACTAGTGTT TCCATTGTAA 120

TCTTGACACA TGCAATTGTA AATAAAGTC ACCACTTTTG CCAAGCTTAA A 171

SEQ ID NO:1931

SEQUENCE LENGTH:99

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02184

SEQUENCE DESCRIPTION:

GATCATACCA CTGCACTCTA GTCTGGGTGA CAGAGCGAGA CCCTGTCTTG AAAAAATAA 60

ATAAAAAATAA AAAAAATAA AACTGGCACT ACGTTTAA 99

SEQ ID NO:1932

SEQUENCE LENGTH:99

SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS02185

SEQUENCE DESCRIPTION:

5 GATCTGTGTC TTA AAACTTA CTGGAATGGA AATCTATGAA TTATTGCAAA TTGTAATGCT 60
GGAAACAAAA AATAATCCT TGGTTAAAGG GTTTGTAAA 99

SEQ ID NO:1933

SEQUENCE LENGTH:99

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02186

SEQUENCE DESCRIPTION:

15 GATCCTGACA CTCTANCACT CGACTCTGCT GCTCATGGGA AGAACAGAAT TNCTCCTGCA 60
TGCAACTAAT TCAATAAAAC TGTCTTGTGA GCTGATAAA 99

SEQ ID NO:1934

SEQUENCE LENGTH:90

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02187

SEQUENCE DESCRIPTION:

25 GATCTTGACT TATATTCTGT ACCACATACA CTTCTGTGGA CTTTtagcat TTGTGGGTAG 60
ACTTAATAAA GCATGTATAA AAGTGGCAAA 90

SEQ ID NO:1935

SEQUENCE LENGTH:91

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02188

SEQUENCE DESCRIPTION:

35 GATCAGGNTG CGGATAGACT TGTAAGGGTG TTTGCTGCAT ACAGTGTAAG CATTGTGACC 60
GCCAATAANC TTCAATGGTT TCTACTGNAA A 91

SEQ ID NO:1936

SEQUENCE LENGTH:91

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02189

SEQUENCE DESCRIPTION:

45 GATCTTTCGT NTTTTCTAAGC GACTCTACTT TCATTGTTG CCAGCNTAGC TCGTTGCTGT 60
TGCCCAATAA AGCTNGTGTA CGTNCTGCAA A 91

SEQ ID NO:1937

SEQUENCE LENGTH:86

50 SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS02191

SEQUENCE DESCRIPTION:

5 GATCTTACAT CTGCAGCTCT TTCTTCTTTG AATTCCTAT CTGTATGTCT GCCTAATTAA 60
AAAAATATAT ATTGTATTAT GCTAAA 86

SEQ ID NO:1938

SEQUENCE LENGTH:86

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02192

SEQUENCE DESCRIPTION:

15 GATCATCAGT GTTCCTTTTT ACTTATAAAG TTGGATTCTT TTTTAGAATT TGTAATAAAAT 60
AAAACTGCT GCTTTACCAC TGTAAT 86

SEQ ID NO:1939

SEQUENCE LENGTH:91

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02193

SEQUENCE DESCRIPTION:

25 GATCTACCCT GCCTGTACTA CTCTAGGGAG TATGCTGGAG GCAGAGGGCA AGGGAGGGGT 60
GGTATTAAAC AAGTCAATTC TGTGTNGTAA A 91

SEQ ID NO:1940

SEQUENCE LENGTH:84

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02194

SEQUENCE DESCRIPTION:

35 GATCATGAGT GACCCAGCTG TCTCAGTTG TTTATTCTGC GTCCCTTCT CCAATAAAAC 60
AAGCCAGTTG GCGTNGTTA TAAA 84

SEQ ID NO:1941

SEQUENCE LENGTH:79

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02195

SEQUENCE DESCRIPTION:

45 GATCCCCATG CCTAGCAGAG TGCTGGCACT TAGTAGGTCC TCAATAAATA TTTATTAAAT 60
GATGAGATGA TGGAGCAAA 79

SEQ ID NO:1942

SEQUENCE LENGTH:78

50 SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS02196

SEQUENCE DESCRIPTION:

5 GATCCAATCC CATAGACAGC TCTGGGCCTC TTGCATTGA GTTTTTTGA ATTAACTGC 60
AGTATTTTGG AAAGCAAA 78

SEQ ID NO:1943

10 SEQUENCE LENGTH:77

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02197

SEQUENCE DESCRIPTION:

15 GATCCACTAA GGAAATGTTT TAACAGCTAG AGACCACTGC TTGCCTGAAA GGGCGTTCTT 60
AAATTTGGTG CAGCAAA 77

SEQ ID NO:1944

20 SEQUENCE LENGTH:76

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02198

SEQUENCE DESCRIPTION:

25 GATCCACTTC AAGAATTGCT TGCTTTCAGG AAGAGAGATG TGTTTCAACA AGCCAACTAA 60
AATATATTGC TGCAAA 76

SEQ ID NO:1945

30 SEQUENCE LENGTH:76

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02199

SEQUENCE DESCRIPTION:

35 GATCGACTTT GTGTCTCTGT TGCTTAAAT AGGTTTCCC TGTTCTGGAC ATTTCATATA 60
AATGGAATCA CACAAA 76

SEQ ID NO:1946

40 SEQUENCE LENGTH:75

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02200

SEQUENCE DESCRIPTION:

45 GATCATAGAT TTCTGATTTT ATGTAAAATT TTGCCTAATA CATTAAAGCA GTCACTTTTC 60
CTGTGCTGTT TCAAA 75

SEQ ID NO:1947

50 SEQUENCE LENGTH:74

SEQUENCE TYPE:nucleic acid

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5 TOPOLOGY:linear
CLONE:HUMGS02202
SEQUENCE DESCRIPTION:
GATCTGTCAA AGAAACTTC CAAAAGATT TATTAATTAA ACCAGACTCT GTTGCAATAA 60
AAATCCTACA GAAA 74

10 SEQ ID NO:1948
SEQUENCE LENGTH:73
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02203
SEQUENCE DESCRIPTION:
15 GATCCACTTT AGCAAACCTT GCTGCAGAGG ACTGTAAAA CAAATAACTA AAAATAAACT 60
TAGAAAATAC AAA 73

20 SEQ ID NO:1949
SEQUENCE LENGTH:73
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02204
SEQUENCE DESCRIPTION:
25 GATCGTAATG TTTATCATGT TACTTCCCCA CCCCTACATT TTTTGAAATA AAATAAGGAA 60
TTTATTCTC AAA 73

30 SEQ ID NO:1950
SEQUENCE LENGTH:72
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02205
SEQUENCE DESCRIPTION:
35 GATCNCCTGCA ACTAAGNTTA AAGCAGTGTG ACTGTGTTGC TNAATATCA AGTATTGTTT 60
ATAACCACCA AA 72

40 SEQ ID NO:1951
SEQUENCE LENGTH:66
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02206
SEQUENCE DESCRIPTION:
45 GATCTCAGCT ATTAAGATGC AAGTCTGCCA ATGCTCCTGG CCAAATAAAC CTCTTCCTTC 60
TTTAAA 66

50 SEQ ID NO:1952
SEQUENCE LENGTH:65
SEQUENCE TYPE:nucleic acid

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EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS02207

SEQUENCE DESCRIPTION:

5 GATCCTCTTG TACTGGGAGA GGTGCCTTTT GTATCCCCAA TTAAAGGTAG AAAACCACCC 60
TGAAA 65

SEQ ID NO:1953

SEQUENCE LENGTH:62

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02208

SEQUENCE DESCRIPTION:

15 GATCTCGAAG AAAAAAGGGG GAGACCAAAG AATAAAGAA GGGTTTCCCC ACTAAATGA 60
AA 62

SEQ ID NO:1954

SEQUENCE LENGTH:62

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02209

SEQUENCE DESCRIPTION:

25 GATCCAGCTG TNCTTAAGAG CCAGTAATGT CTTAATAAAC ATGTGGCAGC TTTNNTTGA 60
AA 62

SEQ ID NO:1955

SEQUENCE LENGTH:61

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02210

SEQUENCE DESCRIPTION:

35 GATCTCATAT TTCACCCAG GCTCAACTGA GGATGTGGCT TATTAAACAC GGAAGTGCAA 60
A 61

SEQ ID NO:1956

SEQUENCE LENGTH:59

40 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02211

SEQUENCE DESCRIPTION:

45 GATCAGCCAT GTNTATCTTT TAAAAAATA AACAGGTTGC TTTATTTCTT AGCTTCAAA 59

SEQ ID NO:1957

SEQUENCE LENGTH:59

50 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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EP 0 679 716 A1

CLONE:HUMGS02212

SEQUENCE DESCRIPTION:

GATCAGATGA GATTTAATGA AGACCCAGTG TAAAGAATAA ATGANTCTTA CTCCTTAA 59

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SEQ ID NO:1958

SEQUENCE LENGTH:57

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS02213

SEQUENCE DESCRIPTION:

GATCTACACC TGGACTGCCC AGGTCTATAA GCCAATAAAG CCCCTGTTTA CTTGAAA 57

15

SEQ ID NO:1959

SEQUENCE LENGTH:56

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20

CLONE:HUMGS02214

SEQUENCE DESCRIPTION:

GATCGAAGAA AAAGGGGNGN CAAAGAATAA AAGAAGGGTT TCCCACTAAA ATGAAA 56

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SEQ ID NO:1960

SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02215

30

SEQUENCE DESCRIPTION:

GATCAGAAAT GTTGANTGTG CATTGAGTAT TAAAAAATTA GATGTATATT ATNCATTGTC 60
CTTTACTCAT GAGTACCTTA TAATANTANT ANTGTATTCT TTGTTAACAA A 111

35

SEQ ID NO:1961

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02216

40

SEQUENCE DESCRIPTION:

GATCTATTCC CCATCCCAAG GCAAGCATGA ATAAAATTAG GTTAAACGTA GCATGTGGCA 60
TCGCAGTCTC TTAGAATTG TTTCATCTAT TTNATTTTAT TGAATACTGT CTGTATCTTT 120
GGTTATCCTG TTTGAAGAAA AAGGACAAAT AAAACATGGC CAGCAAA 167

45

SEQ ID NO:1962

SEQUENCE LENGTH:516

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02237

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SEQUENCE DESCRIPTION:

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EP 0 679 716 A1

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GATCCTCATT CTCACCCATT TGGCTAATCC AGGAATATTG TTATCCCTNA NCCATTATAT 60
TNAAGTTGAG AAATGTGACA GAGGCATTTA GAGTATGGAC TTTCTTTCC TTTTNCCTTT 120
NCTTTTTTCC TTTTGTAGAT GGAGTCACAC TCTCCAGGCT GGAGTNCAGT GGCACAATCT 180
CGGCTCACTG CAATTNCCGT CTCCCAAGTT CAAGCGATTG TCCTGCTTTA GACTATGGAT 240
TTCTTTAAGG AATACTGGTT TGCAGTTTTG TTTTCTGGAC TATATCAGCA GATGGTAGAC 300
AGTGTTTATG TAGATGTGTT GTTGTTTTTA TCATTGGGAT TTAACTTGG NCCGAGTNAA 360
ATAATCAGGT TTTTGTCACT CACACTCTCC CCCAGTTTTT GGGAATAACT TTGGAAGGTA 420
AGGTCANTN CCCTAAGGCC GGTGGGGTTN CTGTTGGACC TATGGGGGGN CCACAACGTN 480
ACTATTTAAT TCCNCCCAC TGTAAGGGGC AAAGGN 516

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SEQ ID NO:1963
SEQUENCE LENGTH:483
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02238
SEQUENCE DESCRIPTION:
GATCTTTCCA GATGACTTGT CCAAGGTCAC ACAGGAGTCA GATGGCCTTT CCACTACCCC 60
ACAACACAGA TGCATAGTTA CTCTGTGGGC TAATACAATT CAGAATTCAG AGCTCTGCCC 120
ATGGTCACCG GTGGAATCCA CCAGCCATCT CCCTGACCTT GCTCTCCTCT GTTCTCCTCG 180
TCTCCAGGT CCCATGATC AGGGCGAGCT GGCTTCAGGA TGTGGGCAAG AGGGGTTTTA 240
GATGGAAGGG TTTTCTCCA GGACAGAATG TTAAGCCAAG CCTGGACTTA ATTGTTCCAA 300
GATGTCGTTA GAATTGGTGG ACAATTTTTT TTTAATGATT AGCAAAGGAC AAGGCTTTTG 360
GTGGTCATTA GTATTGTCA TCAAATATTC CAGTTCTCCA CAATTCTGGG GTACCATGGT 420
ANGGATGAAC CTTCCCTGTC TTTTCAGGGT TAAGTTTACG TCTNGTGATG TGCTTTTGTC 480
AAA 483

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SEQ ID NO:1964
SEQUENCE LENGTH:452
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02239
SEQUENCE DESCRIPTION:
GATCGCTGGA GCTGTGGTCG CTGCTGTGAT GTGGAGGAGG AAGAGCTCAG ATAGAAAAGG 60
AGGGAGCTAC TCTCAGGCTG CAAGCAGTGA CAGTGCCAG GGCTCTGATA TGTCTCTCAC 120
AGCTTGTAAG GTGTGAGACA GCTGCCTTGT GTGGGACTGA GAGGCAAGAT TTGTTCTGTC 180
CCTTCCCTTT GTGACTTGAA GAACCCGTGAC TTTGTTTCTG CAAAGGCACC TGCATGTGTC 240
TGTGTTCTTG TAGGCATAAT GTGAGGAGGT GGGGNGACCA CCCCACCCNN ATGTCCACCA 300
TGACCCCTTT CCCACGNTGA CCTGTGCTCC CTCCCAATC ATCTNTCCTG TTCCAGAGAG 360
GTGGGGCTGA GGTGTCTCCA TCTCTGCTC AACTTCATGG TGCCTGAGC TGTAACNTTT 420
TCCTGNNTAT TAAAATAAGA CCTGAGTTTA AA 452

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SEQ ID NO:1965
SEQUENCE LENGTH:433
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS02240

SEQUENCE DESCRIPTION:

GATCAGACAC CAGAGGGTTG GGCATTCTTG CAATACCTTA ACAGTGCTGA AATCTGCAGC 60
 ATGGTACTAA GGAAGTTAAA GTTGAATGT AACCACCTTA TTTAAAAGGT TTTTCTTT 120
 AATTAAATG AAATGGTGGT TGAAGTGAAC ATGATTTTGT TGACCATGTT CGTGAATTAC 180
 AGATGCAACA TGCATTGGTA GAATCGTGTG ATGGTCTTTT GTGATACTTA ATTTTACAT 240
 ATCCAGTCT CTGTATGTAT CTGCATAGAC AAAGAAAAA CAACTCCTG CTTTGCTTTT 300
 ATTGAANGG TTTCCAGGAC TGCCTGTCTG CTCCTGAGCT CTGTTTAAAG TATGTGTATC 360
 CTTTGCTTGT ATTTTGAAT TAAAAAATA AGGAAAAGGA NGCCTTTATT TGTGGNGCA 420
 TGTGGCATT GTN 433

SEQ ID NO:1966

SEQUENCE LENGTH:424

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02241

SEQUENCE DESCRIPTION:

GATCTGCAAA GAAAGCTTTT CTTNCGTCGC TGCCTCAGNC TCCTCCCTAT GCCTCTNGCA 60
 CCTGCGCAGA AGTGCTGGCT GTGCTGANGT CACCATCATC TTCCTCTCCC CCAGCCTCCC 120
 AGGCTGGATG GCATGGACTG TTTGCTGACC TCTGTTCTCT TAGGGCATGG GAGGTGGGAG 180
 GATATCAAT TCTNTAGCCC TTTCTCCTA TTCTCCCAAG NAGAGAGNTT CCCATTCTC 240
 CTCGGCCATT GTACCTAGCT CTTGTCCTA GCTGCATTTC AGTGGACCAT GGATAGAGGG 300
 ACTGAGNCT AGACGGGGAA GACTGGCAGN GAGGCACGCA GGTACTGTGA AAATCCTNNC 360
 CTTTGACCTC CNCCAGTGGG AGAGGGGNGT TGGGGTTTTC AATGTGAGAA CAGNAACAAA 420
 TAAN 424

SEQ ID NO:1967

SEQUENCE LENGTH:418

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02242

SEQUENCE DESCRIPTION:

GATCNCCTGC TCTCCAAGCA TGGCATCTAT GTGCAGGCCA TCAACTACCC AACTGTCCCC 60
 CGGGGTGAAG AGCTCCTGCG CTTGGCACCC TCCCCCACC ACAGCCCTCA GATGATGGAA 120
 GATTTTGTGG AGANGTGCT GCTGGCTTGG ACTGCGGTGG GGCTGCCCT CCAGGATGTG 180
 TCTGTGGCTG CCTGCAATTT CTGTCGCCGT CCTGTACACT TTGAGCTCAT GAGTGAGTNG 240
 GAACGTTCT ACTTCGGGAA CATGGGGCCC CAGTATGTCA CCACCTATGC CTGAGAAGCC 300
 AGNTGCCTAG GATTACACCC CCACCTGCGN TTAAGTTGGG TCCAGGCCTA CTCCTGTCTT 360
 CTGCTTTGTT GTGTGCCTCT AGCTGAATTG AGCCTAAAAA TAAAGNACAA ACCACAAA 418

SEQ ID NO:1968

SEQUENCE LENGTH:413

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02243

SEQUENCE DESCRIPTION:

GATCATTGAA TAAACGGGT GTAGAGTACA GGAATGGGGC AGACGCGATT CAGGTGAACA 60
 GCACANGNAG AATATGAGGT GGTTCCTAGG AGCAACACTT TCGACCTCCA GTTCTCCNTG 120
 ATGACAGTAG CTGTCTCCNN GNGAAAAATC CTCACTTATT AACTCTCTTT TCTTGCATCT 180
 CATTTTATA GAGCTACTCA TCCTTATTTG GAAAAACCA CAACAAAAA GGCTTTTAGA 240
 AAATGGTTGT AAATCTGACT TCTTTGCAAG TAACTATGTA TATTGTAAAT AGGATATAAA 300
 AAGGCCTTTT TTCTAAATAA GGCCTTAACT GCCTGTAACA TGAACCTTCA AACTAAACCA 360
 CTTAACTCAN TGNACTACCT TATGGGTTTG TCTGACATCC CTCAACTTAC CAN 413

SEQ ID NO:1969

SEQUENCE LENGTH:412

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02244

SEQUENCE DESCRIPTION:

GATCCCAACCG AGAAGAACCA TGGGTGGACC CGAACTCCCC GGTGCTCTNA GAGGACCCAN 60
 NNCTTTGTGC CTGGCAAAA AAGCACAAGC GAACCCACGC CCTGATTGCC CTGCGCTACC 120
 AGCTACACCG TGGGGTTGTG GTCCTGGCCA AGAGCTACAA TNAGCAGCGC ATCAGACAGA 180
 ACGTGCAGGT GTTTGAATTC CAGTTGACTT CAGAGGAGAT GAAAGCCATA GATGGCCTAA 240
 ACAGAAATGT GCGATATTTG ACCCTTGNTA TTTTGTCTGG NCCCCCTAAT TATCCATTTT 300
 CTGATGAATA TTAACATGGA GGGCATTGCA TGNGGGTCTA CCAGAAGNNC NTNGGGTNTT 360
 GGANTGGTNG CANAAGNGGG TNGGTTCTTA TGGCTGGGGG NACTTGGGCA AN 412

SEQ ID NO:1970

SEQUENCE LENGTH:406

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02245

SEQUENCE DESCRIPTION:

GATCCAAAGT TCATACATTT TATGTACAAG ATACATTAGA CTTACAATAN AGTCTAATTA 60
 TTAGACTTTT ATGTCAGTGG ATTGTGCTTG CAGAAATACA GAAGTAACAT ACTGACCCTA 120
 GGTGAGGAGT TTCTTACATG GTTAACTGGA TTGACCCAAT TGGAGTAAAA GATTTTGTCT 180
 GTTACCTCGA TGCTCTGCA GTTGTTACCT CAGCATGCCA CTGTAGTCCT TGA CTCTCAC 240
 ATTAAACTA ACTTTGGCTA GGTACTGGTG GCTCACACCT GTANGTAATC CCAGTACTTT 300
 AGGAGGCTGA GACTGGAGGA TTA CTTGAGT CCAGGAGTTG GAGACCAGCC TGGCCAATAT 360
 AGACTGTCCC TACAAAGGAA AATAAANTTT GTTTCATCTT TCNAAA 406

SEQ ID NO:1971

SEQUENCE LENGTH:401

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02246

SEQUENCE DESCRIPTION:

GATCAATAT GGCATCAACA ATATCCGGGA GCTGGTGGGC CACAAGGTGA ACCTGCAGAT 60
 GGTGTATGAC AGTCCCCTGT NCCGCCTGGA TGCCGAGCCG AGGCCCCCTC CCACACAGGA 120

GGCTGCGTGA CATGGGCCAC TCTAGGACAG GTCATCCTCC CCGAGTCCCT GCTGCTGCGC 180
 TCCTTTGCAT CCCTGGCCAG TNACCTTGTA TTTATGAGGC CTCTGTNAGG CAGCCCCCAC 240
 CTCCTCTTT CCCACCTGTC CCAGGACCAG AATCCCAGGG ACAGAGGACT GGGTAGCAGG 300
 TTCCTTCTGT TGTCTGTGT GGTGTGTCTA CTGTGAGGGT GGGCCCTGAG GAGACCTGTG 360
 GGCCANCTAT TGTCTAATAA AGTGGGGCAG TTGCCCCCAA A 401

SEQ ID NO:1972

SEQUENCE LENGTH:384

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02247

SEQUENCE DESCRIPTION:

GATCTTTNAT GTTGTNATT TTGGAGAGAA GCACAAGGAG TATTCTCTTT CTAGGGAAAG 60
 TTGTGAACCC AACGGAAGCG TAGTTGGGAA AAAGGCCATT GGCTAATTNC ACGTGTGTAT 120
 TGCAATGGGA AATAAATAA TAATATAGCC TGGTGTGATT GATGTGAGCT TGGNCTTGCA 180
 TTCCCTTATG ATGGGATGAA GATTGACCCC TGGCTGACCT TTNTTGGCTG TGGAAAGAGGN 240
 CAATCCTATG GCAGAGCATT CAGAATGTCA ATGCGTAATT CATTATTATC CAAAGCATAG 300
 GAAGGCTCTA TGTNTGTATA TNCCCTNTG TCGGAATACC CCCTTANCTC ATTTCCNCT 360
 TAATAAAATT CACTGGGTG NAAA 384

SEQ ID NO:1973

SEQUENCE LENGTH:383

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02248

SEQUENCE DESCRIPTION:

GATCCTGCTT CTCCTCTGGG GTCTTCTTGG TTCCCTGAAG CCCCTCTTCC GGAGTCCCTG 60
 CCCTCTATCG GCTCTGCCTC CTGCTTCTTT TCTGTATTGC CATGATTTT GCTAAGGATA 120
 AAGGACAAC TCAATGGCTT CTTTGGGAAA CTGCAATCT CCCCCAACAG GCCCCTCTGA 180
 GATTCTCTCT TTTGCCACCT TCGATATTT CTCCAGTTTC CTTGATTCTT TTGATACGTC 240
 CCCATTCAAG CCACTCTGGC CTTCATCCA ACCTGCCAGA ACTTTTTCCT CTCAGCACT 300
 TCAGTCACCT AACATTAGG GTCCTCTGCC CTAAAGGGAC TCAAAATCCT GCAAAANCA 360
 CCACNNAAGG ATAAAAAAT AAA 383

SEQ ID NO:1974

SEQUENCE LENGTH:375

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02249

SEQUENCE DESCRIPTION:

GATCAACAGG AAGAACATGG TGGTCTCCTT TGGAGATGGG GTTACCTTCG TGGTCGTCCT 60
 ACACCAGGTG TGAAGAAAC ATCCTGTCCA CCGTGACTTT CTAGGCTTCT ACGTGGTGGA 120
 CAGTCACCGG ATGTCAGCAC AGACGCATGG GCTGNTGGGG CAATTCTTCC AACCCITTGA 180
 CTTTAAAGTG TCTGACATCN GGCCAGGCTC TNACCCACA AAGCCAGATG CCACATTGGT 240
 GGTGAAGAAC CATCANGNTG ATTNTNACCA GGGGCTCCCN GAAAGANTAC AGNAAAGGNA 300

TGCCANGCAT CGGCACGAAN GGTGTCTTC TTGGTTCGNN CACANCAACG GGAATGTTG 360
TTGNTTGANT GGTGN 375

5 SEQ ID NO:1975
SEQUENCE LENGTH:370
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02250

10 SEQUENCE DESCRIPTION:
GATCTATGTG CACACACCCN CATCACATGG AATGGGCTGG TCTAGGCTGT GGCCTGNAC 60
CTTCCTTAGA GTGAATAGGG CGGACACTCC TCTCTTTCC TGTAGCGTGT GGACCGGTCC 120
ACGCAATTCT TTATCCTGTG AACTCATCTG AGTGGGAGGT GGTGGACACT GGGGTTTCCT 180
15 TCCCTCTCTC CGTAGCATCC GTTGGTCTTT CTCTCCATCT CTGTTGGTTT GTCTGTCTCT 240
GTCTTCTCC CAATCCCTAG GGAAGGGGG CATTGGCTA GGGGGTGCC CTGTGAGCCT 300
NGACCTTGCC CCCTCGTCCN TCTCCCCAGT GTTCCAGGA CCCCCAATA ACCTTGCTCT 360
GTCAGTCAAA 370

20 SEQ ID NO:1976
SEQUENCE LENGTH:367
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02252

25 SEQUENCE DESCRIPTION:
GATCGATACA GGGGAGGGGG GAGGTGAAA CAAACAACAA AACTGTACAT TTTTTTAAA 60
GTTTGTGAA AAGAATATTG TCTTATTCTA TAAACATTT CAAACCTAGT TAGAGATTG 120
TAATCAAAAA ACATTGCGC AGAAAGCAGC ACTTAGGGCT GCCTGTTCTA TACCCTACAG 180
30 TCAGACAGGA AAAGANCTGA AAATGGCACC CTTCTGACAT TCTGNGGCAG CTGGNCTNGC 240
AGCCANGTAA NGGNGAGTTT ATGAGGTGGT GTGGGGAGGG TGGGGGAGGC NGCGTGGGGG 300
NTTCTCTCCA CAGCAGGTGG GNGCAGGCAA GNNTTTGGNG GCCAGANGGN GNGCTTTGTN 360
CNTGGGN 367

35 SEQ ID NO:1977
SEQUENCE LENGTH:353
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02254

40 SEQUENCE DESCRIPTION:
GATCTCCAGC CTTACCGCGG CTCGAAATGG ACCCCAACCTG CTCCTGCACC ACTGGTGTCT 60
CCTGCGCCTG CACCGGCTCC TGCAAGTGCA AAGAGTGCA ATGCACCTCC TGCAAGAAGA 120
45 GCTGCTGCTC CTGCTGCCCC GTGGGCTGTG CCAAGTGTGC CCACGGCTGT GTCTGCAAAG 180
GGACGTTGGA GAACTGCAGC TGCTGTGCCT GATGTGGGAA CAGCTCTTCT CCCAGATGTT 240
AATAGAACAA GCTGCACAAC CTGGATTTT TTTTCAATAC GATACTGAGC CATTGNNGC 300
ATTTCTTTT ATGTAAATA TGTGAGTGAC AATAAAACAA TTTTGACTTG AAA 353

50 SEQ ID NO:1978

SEQUENCE LENGTH:351

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02255

SEQUENCE DESCRIPTION:

GATCTNACCT GAGGTGCTGG GTGAGAAATC TTAGGGACCA GATGGAAGAG GGCCTGTNTA 60
 TANNGACATT AGGAAGGAGG TTTGGGAAGG TTTGGGAGGG CAGCCTGACT TGTCTCCAGA 120
 GAAAGTTAGA ACTGGTTGAC TTAGCAACCA AGGGNCACTG GGTCAAAGAC GAGGANTCAG 180
 GACGTCGGTG CCTAGTGACT GAGCGCCANC CAGCCCATTT CTNTACATTG CCATGGGCTA 240
 AACCCAGTGT GCTGTAAACT CTTGCAGTTC CTTGNGGTTA TGGGATTTTG NTATCTTGNC 300
 NGTGTTTCCT CAANTAAAGG NNCTGTTTG TAAAAATTGG GNAANAAGAA A 351

SEQ ID NO:1979

SEQUENCE LENGTH:342

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02256

SEQUENCE DESCRIPTION:

GATCTGTTTC CTACAGACTT CAAATTTGAC ACCCCAGTGG ACAAACCTACC ACAGCTATAA 60
 ATTGAGGCAG CTAACGTCAA ATTCTTGAAT ACAAACCTTT GCCTGTTGTA CATAGCCTAT 120
 ACAAATGCT GGGTTGAGCC TTTTCATGAGG AAAAACAAAA GACATGGTAC GCATTCCAGG 180
 GCTGAATACT ATTGCTTGGC ATNNNGTATG TATATACTAG TGAACATAT TTAATGATTT 240
 AAATTTCTTA TCAAATTCT TTTGTAGCAA TCTAGGAAAC TGTATTTTGG AAGATATTTG 300
 AAATTATGTA ATTCTTGAAT AAAACATTTT TCAAACTCA AA 342

SEQ ID NO:1980

SEQUENCE LENGTH:340

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02257

SEQUENCE DESCRIPTION:

GATCAGCATG ACCAGCACTC GTTGGNGGAA AGGTGTCTNT NAGGAGACGT CTGGAGCTTA 60
 TGAGAAAACA GATACTGATG GGAAGTTTCT CTATCACAAA TCCAAATGGA ACATAACCAT 120
 GCGGTCCTAT GTGGTCCACA CCAACTATGA TGAGTATGCC ATTTTCCTGA CCAAGAAATT 180
 CAGCCGCCAT CATNGACCCA CCATTACTGC GGTGTCCCTG GTGATGGNGA TGAGGAGCTN 240
 CTGCGCTTCT CCAACTGACA ACTGGCCGNT CTGCANGTCA GAGGATGGNC AGTGTCTGTC 300
 CNGGGGTACT GTGGCAGNCA GCGACAAGCA ACCTGNGTCN 340

SEQ ID NO:1981

SEQUENCE LENGTH:339

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02258

SEQUENCE DESCRIPTION:

GATCNTNCG NCTCTGAAGA AGACATGGTG ACTGTGGTGG AGGACTGGAT GANNTTCTAC 60

ATCAACTATT ACAGGCAGCA GGTGACAGGG GAGCCCCAAG AGCGAGACAA GGCTCTGCAG 120
GAGCTTCGGC AAGAGCTGAA CACTCTGGCC AACCCTTTCC TGGCCAAGTA CAGGGACTTC 180
CTGAAGTCTC ATGAGCTCCC GAGTCACCCA CCGCCCTCCT CCTAGCTCAG GGACCCAGCC 240
5 CCTCTCTCT GAGAAACTCT GACCTTCATG TCCTTAGGCT GTGCTCCTGC CACTCTACCC 300
TGACACCTCA ATAAAGACCA GTGCTGGTTT TGTGGAAA 339

SEQ ID NO:1982

SEQUENCE LENGTH:334

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02259

SEQUENCE DESCRIPTION:

15 GATCCTTNCG TGCTGAATAT CTGAAAAGAG AAATTTTTC TACAAAATCT CTGGGGTCAA 60
GAAAGTTCTA GAATTNAAAT TGATAAACAT GGTGGGTTGG CTNAGGGNAA GAGTATATGA 120
GGAACCTTTT AAACGACAAC AATACTGCTA GCTTTCAGGA TGATTTTAA AAAATAGATT 180
CAAAATGTGT ATCCTCTCTC TGAAACGCTT CCTATAACTC GAGTTTATAG GGAAGAAAA 240
20 AGCTATTGTT TACAATTATA TCACCATTAA GGCAACTGCT ACACCCTGCT TTGTATTCTG 300
GGCTAAGATN CATTAAAAAC TAGCTGCNCT TAAA 334

SEQ ID NO:1983

SEQUENCE LENGTH:332

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02260

SEQUENCE DESCRIPTION:

30 GATCTTGTC CAAGCTNAGG GTGTAGCGCT GCAAACGATG AAGCAAGAGT TTCTCATTAA 60
CCTTGTAAG CAAAAGCCAC AAATAACANA GGAACAACCT GAGGCTGTCA TTGCANATTT 120
CTCAGGCTNT TGGAGAAATG CTGCCAAGGC AGGACAGGAG TCTGCTTGT GAGAGGGCAA 180
AAACTGATTT CAAAACTCG CTGCTTTGG GNTTTAAATT ACTTCAGGGA AGANAGCAAA 240
35 CAGNNCTTTC ATTCGGTGTN ACTTTTCTCT NNAATTTTAA CTNNTTTAACT ACTTTTGTG 300
GATTAATGNA ATGATAAAGC CTTTATCGC NN 332

SEQ ID NO:1984

SEQUENCE LENGTH:331

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02261

SEQUENCE DESCRIPTION:

45 GATCCTGTGT GTGTGTACTA CCATAGAATG GGCCCCAAGA TGCATGATNA AGTGAGGAAA 60
AAAGCCCATG GTATCCTAAT GTTTGGAATG GAGAAAGTGT GTAGATGTAT GTGTGTGCAT 120
ATGTTTTAC ACAGACGTAT ACACGTGTAT ATCATATGTC CACCTGCATA TGCCTAGGAT 180
GTCTCTGGGA GGATATCTAG CAGCCCGGCA GCCTGAATTG CCTCTGGGAA GAGGGGTGGG 240
AATGACTTTT CAATGTACAC CTTTGTACC TTTTGAATTT TCGTACCATG TACATGTATT 300
50 ATCTATTAAA AAATAGTTCT TAATTTTAA A 331

SEQ ID NO:1985

SEQUENCE LENGTH:326

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02262

SEQUENCE DESCRIPTION:

GATCACCCGG CAAGTTCAGG CTGAATTCTG AAGGCAAAC T GAGCAGACG GTCTCCATGG 60
 CAACCCGAGC TTCAGAGGCC GAGGATGCCT CCCTTCTCAG CTTTCATGCAG GGCTACATGA 120
 AGCAGGCCAC CAAGACCGCC AAGGATGCAC TGAGCAGCGT GCAGGAGTCC CAGGTGGCCC 180
 AGCAGGCCAG GGGCTGGGTG ACCGATGGCT TCAGTTCCTT GAAAGACTAC TGGAGCACCG 240
 TTAAGGACAA GTTCTCTGAG TTCTGGGATT TGGACCCTGA GGTCAGACCA ACTTCAGCCG 300
 TGGCTGCCTG AGGACCTCAA TACCCN 326

SEQ ID NO:1986

SEQUENCE LENGTH:321

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02263

SEQUENCE DESCRIPTION:

GATCCTTACA TCTGCATCTA GTTATCAGTA ATTTAGATAT TGAGCTATTT TGATTTATAT 60
 TTAAGAAATT AATACATTAG CACTGAAAGT TAAATAGTGT GTTTAAGGTA GTTAATTTCA 120
 GGTGGAATGG GTTTTTTTTA ATGAAGTGTA AATAATACCA ATGTATAAGN GTATATTATN 180
 ATATTAAATA TTATAGTAAA AAGGAATGTG TGGTATTTC TNCAGCAAAA CTATTTTTGT 240
 GATNTTTTNA TTCTCANTTT TTTATTTAAA AAATGTTACA TCTGCAGAAA AGTTGAAAGT 300
 AATAAAACT CTTCACTAA A 321

SEQ ID NO:1987

SEQUENCE LENGTH:321

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02264

SEQUENCE DESCRIPTION:

GATCTGCGCT GTGGCTGTCC CTGGACGTGC TGCAGCCCTC CTGTCCCTTC CCCCCAGTCA 60
 GTATTACCCT GTGAAGCCCC TTCCCTCCTT TATTATTAG GAGGGCTGGG GGGGCTCCCT 120
 GGTTCNAGC ATCATCCTTT CCCCTCCCCT CTCTTCCTCC CCTCTGCACT TTGTTTACTT 180
 GTTTTGACA GACGTGGGCC TGGGCTTCT CAGCAGCCGC CTTCTAGTTG GGGGCTAGTC 240
 GCCGAATTCT ACAATCCCG TGGGCGGGC GGGGCGGGAG AGAAAGGTGG TGCTGCAGTG 300
 GTGGCCCTGG GGGGCCATTC N 321

SEQ ID NO:1988

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02266

SEQUENCE DESCRIPTION:

5
GATCAAAAAT TTCTATCTGG AGAACCTCTG CGGACAAACC GAGTGCTTCC TGCAATTCCA 60
AGTCAACGAA GACACAGCAC AGCAGCAGAA GAGAGTGAAC ATTCTGCCAA CCCCACCAGT 120
GATGAAAATT AACTGTGGGC CACTCGCTGC AGAAATGTAG ATGAATATGT ATTTTCAACT 180
CTCAAAGGAC AAGATTACTC CAGTTTGTA GAACGAAGAC CAATTTAGTA AGCTGCATTG 240
TATAAGCCAT CAGTTTATA ACTCGAAATT CTTTATTCCA AATAAGATA CTCCTAAAT 300
AAGCACTTAG ANAAA 315

10
SEQ ID NO:1989
SEQUENCE LENGTH:312
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

15
CLONE:HUMGS02268

SEQUENCE DESCRIPTION:

20
GATCAAAGCT GGGGCTGGAG GGTGGAGGTG TCAAGCCAGG CCAGGCAAAG GGAGATTGA 60
AGCCAGAGCA GGTGGGCGCA TCTCCAGGA AACCTGCAT CATTCTTCC TGGTGATTCT 120
TTCCTTCTTT GTTATGGTTC ACATGAGTCT ATGGAGTGCT CATTCTACAT TCTCCGTTCT 180
TATCTTCATC CTATGCAACT TTAGACCGCT ACTGTTTTT AAAAGTGATT TGATTGNGG 240
CTGTAAACCT TTTTATTGT TGTTAGCTTT GACTTTGAAA TGTGTAATAA AGATTCAAGT 300
GAGCATTAGA AA 312

SEQ ID NO:1990

SEQUENCE LENGTH:310

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02269

SEQUENCE DESCRIPTION:

GATCTTGGGG TCCCCGACG ACGTGCTCGA GTTCCTGAAG GTGTATGAGA AGCACTCNGC 60
CCAGTGAGCA CCTGCCCTGC CTGCATCTGG AGAATTGCCT CTACCTGGAC CTTTGTCTC 120
ACACAGCAGT ACCCTGACCT GCTGTGCACC TTACATTCTT AGAGAGCAGA AATAAAAAGC 180
ATGACTATTT CCACCATCAA ATGCTGTAGA ATGCTTGGCA CTCCTAACC AAATGCTGTC 240
TCCATAATGC CACTGGTGTT AAGATATATT TTGAGTGGAT GGAGGAGAAA TAAACTTATT 300
CCTCCTTAAA 310

SEQ ID NO:1991

SEQUENCE LENGTH:305

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02270

SEQUENCE DESCRIPTION:

GATCCGAGTG AATGCAGTAA ACCCCACAGT GGTGATGACG TCCATGGGCC AGGCCACCTG 60
GAGTGACCCC CACAAGGCCA AGACTATGCT GAACCGAATC CCACTTGGCA AGTTTGCTGA 120
GGTAGAGCAC GTGGTGAACG CCATCCTCTT TCTGCTGAGT GACCGAAGTG GCATGACCAC 180
GGGTTCCTT TTGCCGNTGG AAGGGGGCTT CTGGGCCCTG TGAGCTCCCT CCACACACCT 240
NAAGCCCCAT GGGCGTGCTC ATCCTACCCC CAATCCNTCC AATAAACCTG ATTCTGCTGG 300
CCAAA 305

SEQ ID NO:1992

SEQUENCE LENGTH:301

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02271

SEQUENCE DESCRIPTION:

GATCGAGACA CGTGATGGGA AGCTGGTGTC TGAGTCCTCT GACGTCCTGC CCAAGTGAAC 60
AGCTGCGGCA GCCCTCCCAG CCTACCCCTC CTGCGCTGCC CCAGNNCTG GGAAGGAGGC 120
CGCTATGCAG GGTAGCACTG GGAACAGGAG ACCCACCTGA GGCTCAGCCC TAGCCCTCAG 180
CCCACCTGGG GAGTTTACTA CCTGGGGACC CCCCTTGCCC ATGCNTCCAG CTACAAAACA 240
ATTCAATTGC TTTTTTTTTT TGGTCCAAAN TAAAACNTCA GTTAGCTNTG CCAATTTNAA 300
A 301

SEQ ID NO:1993

SEQUENCE LENGTH:311

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02272

SEQUENCE DESCRIPTION:

GATCTGAACT CCAGCTGCCC TACAACTCC GTCACAGCTT TTNTTCTCAC TTCATGTGAA 60
 AACTACCCCA GTGGCTGACT GAATTGCTGA CCCTTCAAGC TCTGTCCCTTA TCCATTACCT 120
 TAAAGCAGTC ATTCCTTAGT AAAGTTTCCA ACAAATAGAA ATTAATGAAT AAATGTTGAC 180
 ACTTTGATAG CACTGATATG GAGATTATCC TTTCATTGAG CCTTTTATCC TCTGGTCTTC 240
 TTTGAAGAAC CCCTCACTGT CACCTTCCTG AGAATACTCT AAGACCAATA AATACTTCAG 300
 TATTTAGAA A 311

SEQ ID NO:1994

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02274

SEQUENCE DESCRIPTION:

GATCTAAAC TNAAGAACAA ATTCTATTTA TTTATTATTG GAAAATNAAA AGCAACTCAA 60
 ACAAACITCA ACCTGGAGGT GCATTATATA TTCATTCTGC ATTTATTCTG TAAAAAGGTG 120
 ACTGTTTTAT AATNCITTTT AATTTATGTT CAATATATAT AAAAAAGTGCA TCTNTTTTNT 180
 TTTTCCCTTT TTTCTCCATA ATTTAAGAA ATGAATNNGN TTGTTGTCAA CACATTGTG 240
 AAGTCTTGTG CTATAAAGGG GAACCTCCCC TAATAAAGG GCCTTGAAA CCTCAA 297

SEQ ID NO:1995

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02275

SEQUENCE DESCRIPTION:

GATCTAGGAG AGGCGGCTCT GAACGATTAC CTGCGGGTCA AGACAGTNAC CTTCAATAC 60
 TGAAGAAAAG TCTTTTAAAG AAGAAAGTCC CTGCCCTCC CTCGTGGCTG GGGCCCCCTC 120
 CCTNTTAAAG CTGGNTGCAC AGCACCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCN 180
 TGCACACCAT GTTTCNTCT TGGACGCCCT CTTCCAGTN ANAAGCAGCC CTTGGNTGGN 240
 TNAGGTGTGC CCTCCCAGG NAGAATAAAG CTTCTAAAGA NAGACCGTCC AAA 293

SEQ ID NO:1996

SEQUENCE LENGTH:290

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02276

SEQUENCE DESCRIPTION:

GATCAGGAGG AAGTGAGCAG TCGCCTGCCT GCAGCAGGNA GCTTCTACT CCTGCCTCAT 60
 GCGTACGTCC CACAAATGCA GGTGTCCTGA GCACCACACC CAGTGGGAAG AGTGTGGGGG 120
 AGGCGCACAG TGTGAGCCCG CCCCCACGTC GTGGGTTAAC ATCTGTTATC AAAGTGTGT 180
 CGTTGTTGTG GGTGTTGCTC TTGAACAAGA TGTGGGCCTT GCAAGATGGG AGAGTAAACC 240
 TTGAAGGGCT TTATTAAGA AATAAAAAAG NACTTNTGT ATCTTTTAAA 290

SEQ ID NO:1997

SEQUENCE LENGTH:289

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02277

SEQUENCE DESCRIPTION:

GATCCTGAAG AGGATGGTGT GGGAAATGCAC TTGAGAAAT GNCTATCTAA CCTTTNGAAA 60
 CTAAAGTGT TCCCAGTCCC CATTATACTT TTTAAACCA CAATAGTCAC ATAAGGAAAT 120
 AATCTAGCAG CTCATCCCTT TGCATCCAAT GTTTGAACTA TTTTAGAAA GTGCTCTNGT 180
 TCTGTCAAAG AACCTTCAAC ACAGAAAAAT ACANAAATGA GGGAAATGTA TAATTCCTGC 240
 AGGAGAGAAG TGTGTGTAAC ATGTCAATAN ATGTTCTTAG ANAGTTAAA 289

SEQ ID NO:1998

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02278

SEQUENCE DESCRIPTION:

GATCAGAGAA GCTAGGAGAG CTCCAGCAGG GGCACAGAGG ATTGGNNGCA GGAGGAGTCT 60
 GGAACACAGC CTTCATGCCC CTGACCCCA GGCCGACCCT CCCCACACCC TAGGGTACCC 120
 CAGTCGTATC CTCTGTCCGC ATGTGTGGCC AGGTCGACA AACACCTGTA GATGACTGNT 180
 GGCCNAACCT GGGNCCTGNN CAGGAGGTTG GAGCAGNAAG GGCTCTCCCT AGGGGTGGTG 240
 TNTCTCCTCT AGGGTATTGG GNTGCATGNN NTGCACTNN 279

SEQ ID NO:1999

SEQUENCE LENGTH:274

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02279

SEQUENCE DESCRIPTION:

GATCATGAAG GAACACATAG CACCAAGAGA GGCCATGCTA AATCTCGCCC TGTCAGAGGT 60
 ATCCACACTT CTCCTTTGGG GAAGNCTTCC CTGTCCCCCT TGCATTTCCT TCTTAACTCT 120
 CTGTTACACG TCATTGAAAC TACACTTTTT TGGTCTNTTT TTNTGCTAGA CTGTAAGTTC 180
 CTTGGGGNCA GGGCCTTTGN CTGNCTCATC TCTGTATTCC CAAATGCCTA ACAGTACAGA 240
 GCCATGACTC AATAAATACA TGNTAAATGG NAAA 274

SEQ ID NO:2000

SEQUENCE LENGTH:280

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02280

SEQUENCE DESCRIPTION:

GATCTTAACA AAATTCGTAG CAGTGAACCC TTGAAATGCA TGTGGCTAGA TTTATGCTAA 60
 AATGATTCTC AGTTAGCATT TTAGTAACAC TTCAAAGGTT TTTTTTGTG TGTTCCTAG 120
 ACTTAATAAA AGCTTAGGAT TAATTAGAAG AAGCAATCTA GTTAAATTC CCATTTGTAT 180
 TTNATTNCT TGAATACTTT TTNCATAGTT ATTTGTTTAA AANGATTAA AAATCATTGC 240

ACTTTGGTCA GAAAAATAAT AAATATATCT NATAAACAAA

280

SEQ ID NO:2001

SEQUENCE LENGTH:271

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02281

SEQUENCE DESCRIPTION:

GATCTGCATG TTCTCTCTTT GGGTTCAAGC ATTCCTTAC AGAAGAGCCA CCGTGGAAAGT 60
 CATGGGTAAA TATGTGTTGA ATTGGTAACT CCCTCTTGA GAATTTCTTG TGAATTACAC 120
 AGCAATAGGG GAACTCATT AACTGGAGAC ATAATCTCAA TTTGTAAAGT GTGGCCCAT 180
 TTCTAACATT TTNANNTTGC ATACCCTCCC CTCTCTTCTC GATTGATGAA ACTAACAAAG 240
 AGGTTAATAA AAGCCCATCT CGTCATGTAA A 271

SEQ ID NO:2002

SEQUENCE LENGTH:270

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02282

SEQUENCE DESCRIPTION:

GATCTTACCC GTGACAAAAT GTGTTCCATG GTCAAAAAAT GGCAGACAAT GATTGAAGCT 60
 CACGTTGATG TCAAGACTAC CGATGGTTAC TTGCTTCGTC TGTCTGTGT TGGTTTACT 120
 AAAAAACGCA NCAATCAGAT ACGGAAGACC TCTTATGCTC AGCACCCNCA AGGTNCN CN 180
 AATNCGGGAG AAGATGATGG GNAATCATTG GCCCCGTGAG GGTTC AAGGC AAANTTTGCT 240
 TTTGAANGNA AGGGGGGNNA ATAAATTNGN 270

SEQ ID NO:2003

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02283

SEQUENCE DESCRIPTION:

GATCCCAACA GAAGAACATC GGAGACCAGA GAGAGGAACT CAAAGGGGCG CTGCCTCCGG 60
 GTCTGGGGTC CTGGCCTGCG TGGCCTNTTG GCACGTGTTT CTCTTCCCCG CCCGGCCTCC 120
 AGTTGTGTGC TCTCACACAG GCTTCCTTCT CGACCGGCAG GGGCTGGCTG GCTTGCAGGC 180
 CACGAGNGTN GGCTCTACCC NACACTGGCT TTGCTGTGTA TACGCTTNTT GCCCTTAAAT 240
 AAATATGCAC ATTTTATCCA TTAAT 265

SEQ ID NO:2004

SEQUENCE LENGTH:249

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02285

SEQUENCE DESCRIPTION:

GATCCACATT GTTAGGTGCT GACCTAGACA GAGATGAACT GAGGTCCTTG TTTTGTTTTG 60

TTCATAATAC AAAGGTGCTA ATTAATAGTA TTTCAGATAC TTGAAGAATG TTGATGGTGC 120
 TAGAAGAATT TGAGAAGAAA TACTCCTGTA TTGAGTTGTA TCGTGTGGTG TATTTTTTAA 180
 AAAATTTGAT TTAGCATTCA TATTTTCCAT CTTATTCCCA ATTAAGAAGTA TGCAGATTAT 240
 TTGCCCAA 249

SEQ ID NO:2005

SEQUENCE LENGTH:242

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02287

SEQUENCE DESCRIPTION:

GATCAGGAGC AAACAGACCC TGCAAGGTCC TCCAGGCCTG GGGACAGGAA AGCCACTGAC 60
 CCAGCCCGGG AGGCAGAACC AGGCAGCCTC CNTGGCCCCA GGCAGCCCTT TTCCCTCCAG 120
 TGGCACCTCC TGGAAACAGT CCACTTGGGC GCAAAACCCA GTGCCCTCCA AATGAGCTGC 180
 AGTCCCCAGG CCATGAGCCT CCCGGGAATG TTTAATAAAG GGCCTGGCCA CCTCTCCTCA 240
 AA 242

SEQ ID NO:2006

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02288

SEQUENCE DESCRIPTION:

GATCTAAGTT TGATAAGAGC CTGTGTGGTG AGTATGGTGT GTATGTGAAG GTGACTTCCA 60
 TCCAGGACTG GGTTCAGAAG CCATAGCTGA GACTAATGCA AGGCTGGCGA AGCCTTGCTG 120
 AAAGAAGATT TCAGCTGGAG AGGCAAAGTG GCGGGAGTGG CAGAGTGGTG CGTAAGTGTG 180
 GTTAAGTNTG GGTCCANCCT GCATTCTGAG CAATCAATAA AGTNTTCTT TTNCCCCAA 239

SEQ ID NO:2007

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02289

SEQUENCE DESCRIPTION:

GATCCTGAAG GTAATACAAT CAGCAACATT AAAACATTTT TTTCATTTTC TGTTACTGAA 60
 GTAAAATAAG CATTCCACAT TTATAAACA CAGGTTATTT CAGGAAGATA TTTTCATATC 120
 TTACAGCGAA AAGTCTTTT AAACAGAAGC ACCTAATATT TAATATATTA TTTTGTAAT 180
 TATTGACTAA CAAAATGATG ACTCGACTGG CGAAATAAAA TACAGTTTTT AAATCAAA 238

SEQ ID NO:2008

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02290

SEQUENCE DESCRIPTION:

EP 0 679 716 A1

GATCCTGAGA NCTTCAAGCT CCTGGNNAAT GTNCTGGTGA CCGTTTTGGC AATCCATTTC 60
GGCAAAGAAT TCACCCCTGA GGTGCAGGCT TCCTGGCAGA AGATGGTGAC TGGAGTGGCC 120
AGTNCCCTGT CCTCCAGATA CCACTGAGCT CACTGCCCAT NATGCAGAGC TTTCAAGGAT 180
AGGCTTTATT CTGCAAGCAA TCAAATAATA AATNTATTCT GCTANGNNA AACAAA 236

SEQ ID NO:2009

SEQUENCE LENGTH:235

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02291

SEQUENCE DESCRIPTION:

GATCATTACC ATTACAGGAA CACAGGACCA GATACAGAAT GCACAGTATT TGCTGCAGAA 60
CAGTGTGAAG CAGTATGCAG ATGTTGAAGG ATTCTAATGC AAGATATTTT TCCTTTTTTA 120
TAGTGTGAAG CAGTATTCTG GAAAGTTTTT CTAAGACTAG TGAAGAACTG AAGGAGTCCT 180
GCATCTTTTN NNGTTTAANC TGCTTCTGTT NAAAANGCCA NCATTCCTCT GTTTN 235

SEQ ID NO:2010

SEQUENCE LENGTH:233

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02292

SEQUENCE DESCRIPTION:

GATCCTGAAG AACTTCAAGC TCCTGGGAAA TATGCTGGTG ACCGTTTTGG CAANNNGTTT 60
CGGCAAAGAN TTCACCCCTG AGGTGCAGGC TTCCTGGCAG AAGATGGTGA CTGGAGTGGC 120
CAGTGGCCCTG TCCTCCANAT ACCACTGAGC TCACTGCCCA TAATGCAGAG CTTTCAAGGA 180
TAGGCTTTAT NCTGCAAGCA ATACAAATAA TAANTCTNTC CTCCTAAGAG AAA 233

SEQ ID NO:2011

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02293

SEQUENCE DESCRIPTION:

GATCCTTGAC GAGGAGAGAG AGCTTGAAAA GCTGTTTCAG CTGGGCCCCG CTTACCTGT 60
GAAGATGCC TCTCCACCAT GGGAAATCCAA TCTGTTGCAG TCTCCTTCAA GCATTCTGTC 120
GACCCTGGAT GTTGAATTGC CACCTGTTTG CTGTGACATA GATATTTAAA TTTCTTAGTG 180
CTTCAGAGTT TGTGTGTATT TGTATTAATA AAGCATTCTT TAACAGAAA 229

SEQ ID NO:2012

SEQUENCE LENGTH:223

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02294

SEQUENCE DESCRIPTION:

GATCTGGCAT AAATAAATTN AATAAATATT TTAATGCTCC ATTTTITAAT GTTGCTTTTC 60

ATACTAAAGA ATGGTGTAGA CTTGTTTTGC AACTNTAAGG TACCCAGTTA TCAATTTAAT 120
 CAATGTTTTA GAGNAGGAAA TNATTTTTTN GGTAGAAATT GTTCANGAAC CTTAATTGAA 180
 TGCATTAAAT GATGGTGGCA AAATAAACCT ATTAGAAATT AAA 223

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SEQ ID NO:2013
 SEQUENCE LENGTH:221
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS02295

SEQUENCE DESCRIPTION:

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GATCAATGCC CTCATCTGCA ATGTAGGGGC CGGTGGACCT GCTCCAGCAG CTGGTGCTGC 60
 ACCANAGGAG GTCCTGCCCC CTCCTACTNCT GCTGCTCCAG CTGAGGAGAA GAAAGTGGAA 120
 GCAAAGAAAG AAGAATCCGA GGAGTCTGAT GATGACATGG GCTTTGGTCT TTTTGACTAA 180
 ACCTCTTTTA TAACATGTTT AATAAAAAAGC TGAACTTTAA A 221

SEQ ID NO:2014

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SEQUENCE LENGTH:219
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02296

SEQUENCE DESCRIPTION:

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GATCTGTAGT GTCATGGGTG CTGCCGCAGA CGNAAGTTGA NCTGGGGGTG CCTGCAGCCT 60
 TCCACTCCTG CCCCGCCTCA CCCACATGC TCCCTGTTTC TAATGCTTTC TCTAACTTCC 120
 TCACCCCTTA ACCAAAAAGG TGTGTTTNCCT TTTGTNCATA TAGCCATTCT NAAATATNAG 180
 TAATGTAAAC CTNACTTTAT TAAAAAATTA TCCAGCAAA 219

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SEQ ID NO:2015
 SEQUENCE LENGTH:216
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02297

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SEQUENCE DESCRIPTION:

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GATCAGGTTT GTTGAGTTTT TTAGCCTAAT TCCAAAGCAT GGAAGAGTGC TCTAGGTAGG 60
 AAAGAAAGCT TTTTCTTACG ATTTGTAGCT ACCTACTGTG CCTGACTTGG TGCCTGTGTG 120
 AGGATTAAGC CCTTAGTCTG CTCTTGCAAT TATTCAAATG ACAAATTAAA TTTGCTTTTG 180
 TAATAACAAT AAAAGTTGTC ATCTTCCCTT TTGAAA 216

SEQ ID NO:2016

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SEQUENCE LENGTH:210
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02298

SEQUENCE DESCRIPTION:

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GATCCTGCCA TCACTGCTGC AAAGAGAAACA CGAGACTCAA GGAAACTCCT CCTCCACCGC 60
 AGCCCAACTG TGCCTGCTAG TATCCCGGTG CACACAGGCA GCTCCAGGGG GCTCTGGTTG 120

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CCAACAAACA GCATTGTAA ATGGTCTATT AGCCTTCATT TATACTGCCT AACAATTATT 180
TGAAGGAATA AATTGATGTC AATGGCTAAA 210

SEQ ID NO:2017

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02299

SEQUENCE DESCRIPTION:

GATCTAGCCT GATTCTGCG TGTCCGAAAG AACTTAACGT TTAAAGGTN ATTGTNAAGT 60
AACTGTGTGG GGTTCATG CCAGTTTCCT AATTCCATCT CACTGGAGAT GTTAAAGTT 120
GGCCTCTATC CTAATGACTC AAACTTGGT TCTTAACTAC CATGATTGCT TTNAGGGCC 180
CGGAATTATA AATATATATN ATATTAAANT TGTTTGAAA 219

SEQ ID NO:2018

SEQUENCE LENGTH:208

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02300

SEQUENCE DESCRIPTION:

GATCCGGGGC ACAAGAGGG TGGGGAACAT GGGGGCTATA CTGGGAAAG CAGCCATGCT 60
CCCCCNACC TCCAGCCGAG CATCCTTCAT NAGCCTGCAG AACTGCTTC CTATGTTTAC 120
CCAGGGGACC TCCTTCANA TGAAGTGGGA AGAGATGAAA TGTTTTTCCA TATTTAAATA 180
AATAAGAACA TTA AAAAGCA ACCCCAAA 208

SEQ ID NO:2019

SEQUENCE LENGTH:202

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02301

SEQUENCE DESCRIPTION:

GATCTCAAGG CTGCCGTACT GGAGGCCATG ACTGCCTTCC GCAGAGCAGG TGCTGACATC 60
ATCATCACCN ACTACACACC GCAGCTGCTG CAGTGGCTGA AGGAGGAATG ATGGAGACAG 120
TGCCAGGCCC AAGAACTAGA ACTTTAAAC GTTCCCGGG CCTCAGACAA GTGAAAACCA 180
AAGTAAATGC TGCTTTTAGA AA 202

SEQ ID NO:2020

SEQUENCE LENGTH:224

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02302

SEQUENCE DESCRIPTION:

GATCTTCTTT GAGACAAGGC AGGCTGTGGC CATGTAGCCC CATCACAATG TGTTTGATNAT 60
TGTCTGTGTG TCTGTCTCCC CCACCAGACT GTGAGCTCCA TGAGGGCAGG GACCGTGTCT 120
TGTCGGTTCT CTGTATCCCC AGTGCTTGA ACAGAGCGAG TGCTCACTGT GTATTTAATA 180

AATGGACAAA GAGAGAGGAT GACCCCTCACG GGGAGACAGA GAAA

224

SEQ ID NO:2021

SEQUENCE LENGTH:195

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02303

SEQUENCE DESCRIPTION:

GATCGGCAAA TGCATTGGCC TCCTGGTTAA GCACGTTTTG GGGATAATTT TCTCTTCTTT 60
 AGGCAATGAT TAAGTTAGGC AATTTCCAGT ATGTTAAGTA ACACACTTAT TTTTGCCTGT 120
 GTATGGAGAG ATTCAAGAAA TAATTTTAAA ACCGCATACA TAATAAAGA CATTGTTGCA 180
 TGGCTTATAG TCAAA 195

SEQ ID NO:2022

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02304

SEQUENCE DESCRIPTION:

GATCTGTGCC GTGGTCCTGA GGCAGTTGTC TCCACACAAG TACCTCTAGA ACAATCCCCT 60
 TTTTCCATC AAGCTGTAGC CTGCAGAGAA TGGAAACGTG GGAAAGGAAT GGTATGTGGG 120
 GGAAATGCAT CCCCTCAGAG GACTGAGGCA TAGTCTCTCA TCTGCTATTG AATAAAGACC 180
 TTCTATCTTG AAA 193

SEQ ID NO:2023

SEQUENCE LENGTH:192

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02305

SEQUENCE DESCRIPTION:

GATCTNCCCT GCATCCTGAC CAAGACCCCA ACCGTGCCCC CAACAGACTC CCCCTGGGAG 60
 ATTCAGCCTA TTCACTGATG AGGAAAGTGA AGCCGGGTCT CCTGTCTCCC CAAATTCATT 120
 GCACCTACGA TATAGTCCAG GATTGGGTAG CAAGATTAAA CACAAGCGCT TCAAATTGAT 180
 GAAAACCACA AA 192

SEQ ID NO:2024

SEQUENCE LENGTH:191

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02306

SEQUENCE DESCRIPTION:

GATCCCTAAC TACCAACCCC CTGAAGGCAG GTACAATGAC ATCACCAAGG TGTACACACA 60
 AGTGGAGTTT AAGAGATAGA CTTGCAGGCT GCTATCCTTA ACATGCTGCC CCTGAGAGTA 120
 GGAATGACCA GGGTTCAAGT CTGCTTTCCA CAGAATCAGG CATNCTGTTA ATAAATACTG 180
 GTTTAATCAA A 191

SEQ ID NO:2025

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02307

SEQUENCE DESCRIPTION:

GATCGTATTT CAGTTTTTTG GGTCAATATA TGAACAATGT GTGAACCAGA ACGTATGGTA 60
TTTGACATCA AAGCTATGTC TTGGCATATG TTTATGTTGA TATACTTGAA TTCATTAAA 120
ATGGAATGTT AATTACATCG ACTTCTTACT ATAAAAATA AAAAGTTATT GTCCAGTGCA 180
CAGAAA 186

SEQ ID NO:2026

SEQUENCE LENGTH:380

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02308

SEQUENCE DESCRIPTION:

GATCCATTGA GAAAGAGATG ATGTAATAAA TAATTAAGAT TAGTAATAAT ATTATCAGGG 60
GTGATTATGA CCAGTTGAAT AATCTCTTTC CCTTGAATTA TTTAGCTAAC AAATTAACCT 120
TCCCAAATAT NTAAANTAAT GTAAANTCAT ATTTNACTGC CCATTATTAA CTAAAAATATT 180
TNTGNTGAC TTTGAGCACC AACTGGTAAT ACTAGTAAAT ACCCATGTCA TGCAGATGGC 240
TGGGCGAATA AGAGATGTCT AAAAATATGC ACTGGTCTTG GGAAACATGG CACAAGTAAG 300
GNTATCATAT ATGANGTCTG GTTTATTTTA TGTCTGATTT CTTTTTGANT GAGTAGTTNG 360
GGACTCCANT TCTAAGGNTN 380

SEQ ID NO:2027

SEQUENCE LENGTH:183

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02309

SEQUENCE DESCRIPTION:

GATCTCTCCA CAGGGCTTGT TTTCCAAAGA AAAGTATTGT TTGGAGGAGC AAAGTTAAAA 60
GCCTACCTAA GCATATCGTA AAGCTGTTCA AAAATAACTC AGACCCAGTC TTGTGGATGG 120
AAATGTAGTG CTCGAGTCAC ATTCTGCTTA AAGTTGTAAC AAATACAGAT GAGTTAAAAAG 180
AAA 183

SEQ ID NO:2028

SEQUENCE LENGTH:188

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02310

SEQUENCE DESCRIPTION:

GATCTGCAGC TGCCTTGGGA CTTGAATCCA TGCAATGTTT AGAGTGTGAA GTCAGTTACT 60
TGTTGATGTT TTCTTACTGT ATCAATGAAA TACATATTGT NATGTCAGTN CTTGCCAGGA 120

ACTTCTCAAC AAAATGGAAT TTNNTTTTNC AGTATTTCAA TAAATATTGA TATGCCCAGC 180
CTGNTAAA 188

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SEQ ID NO:2029
SEQUENCE LENGTH:178
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02311

SEQUENCE DESCRIPTION:

GATCCATGCT GATTTTATT GCACAAGAAT TAGGTTTGAA CTCTTGAGCT GGAACCTCAG 60
CAAAC TAGAG TATATATTGT TCAGTATNNC TTTGGAAACA TTTCATTAAT GTACTTGTCT 120
TACANAAATT TCTGAACTTT AGTAAAAAAA AAATAAAGTT AAACTTTAA AACTCAAA 178

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SEQ ID NO:2030
SEQUENCE LENGTH:176
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02312

SEQUENCE DESCRIPTION:

GATCGGTATG TTTTGAAAAG AGTAATTTAA CTTTGGGTG CCAGGAAATG GGTTTTCTCA 60
AAGTCCATTG CCGGCAATGG GCAGGCCTGC AAATACTGGC ACAGAGCATT AATCATACAC 120
CTTATTAACG GTGAGGTGAA TAACTTTGAA ATAAAGTTT AGAGAAATGT TTCAAA 176

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SEQ ID NO:2031
SEQUENCE LENGTH:174
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02313

SEQUENCE DESCRIPTION:

GATCCGCCTG GCAGCCATTG CAGAGTCAGG GGTAGAGCGG CAAGTACTTT TGGGAGACCA 60
GATACCCAAA TTCGCCGTTG CCACTTTACC ACCCGCCTGA ATCCTGGGAT TCTAGTATGC 120
ATAAGAGAT GCCCTGTACT GATGCAAAAT TTAATAAAGT TTGTCACAGA GAAA 174

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SEQ ID NO:2032
SEQUENCE LENGTH:172
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02314

SEQUENCE DESCRIPTION:

GATCCAGAAG TTATGGTGGC TTTCCAGGAT GTGGCTCAGA ACCCAGCAAA TATGTCAAAA 60
TACCAGAGCA ACCCAAAGGT TATGAATCTC ATCAGTAAAT TNCAGCCAA ATTTGGAGGT 120
CAAGCGTAAT GTCCTTCTGA TAAATAAAGC CCTTNC TGAA GGAAAAGCAA CN 172

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SEQ ID NO:2033
SEQUENCE LENGTH:170

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02315

SEQUENCE DESCRIPTION:

GATCTCAGGA CCTCTTTACA CTTTCAAAG TTAAGTAAAG CTCTGAAGAG CTTTCTTTA 60
TGAGGTATATA TCAATATTTA CTACATTAAG AATTAAGACA GAAAATTTAA AGTAGGTATT 120
TATTGATTTA TTAAACAAT AAAAATAATA AAGTATTACA TGCTAACAAA 170

SEQ ID NO:2034

SEQUENCE LENGTH:169

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02316

SEQUENCE DESCRIPTION:

GATCCGTTTG CTGTGAACCC TATGTTATTT CCATGTGTCA AGTGGGTCTT GTGTTGCCAG 60
CTTCTATTTG AAGATTGCGT TTGCACTCAG TGTAAGTTTC TGTCAGCAGT AGTTTCACCC 120
ATTTGCATGG AAAAATTTAA AGCTAATAAA GCAATTTAAA AAGCACAAA 169

SEQ ID NO:2035

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02317

SEQUENCE DESCRIPTION:

GATCCCACAG TCTCAGCCCT GCTTACTAGT GAGAAAGACT GGCAAGGTTT CCTAGAGCTC 60
TACTTACAGA ACAGCCCTGA GNCCTGTAAC TATGGGCTCT GAAGGGGGCA GGAGTCAGCA 120
ATAAAGCTAT GTCTGATATT TTCCTTCACT AATATGAAA 159

SEQ ID NO:2036

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02318

SEQUENCE DESCRIPTION:

GATCCGGGGN AGCTAGGATG GGGAACTGC CACAGCCAGA ACTGAGGGGC TGGCCCCAGG 60
CAGCTCCCAG GGGGTAGAAC GGCCTGTGC TTAAGACACT CCTGCTGCCC CGTCTTGAGG 120
GTGGCGATTA AAGTTGCTTC ACATCCTCAA A 151

SEQ ID NO:2037

SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02319

SEQUENCE DESCRIPTION:

GATCTAACAT CAAACTAACA GCTTTCAGAA AGGAGACTNT TGNCATCTTT TCACCAAGGA 60

GTATATTTGT AGAGTAATAT ATGTGTGGAA NTTNAAATT ATATCATTG ACATGATTTA 120
TGAGGCTTAT TTAAGCTGGA GTNNCCN 148

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SEQ ID NO:2038
SEQUENCE LENGTH:143
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02321

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SEQUENCE DESCRIPTION:
GATCTGGTCT AGTTAACCTA GAAGTATTTT TGTCTCTTAG AAATACTTGT GATTTTATA 60
ATACAAAAGG GTCTTGACTC TAAATGCAGT TTTAAGAATT GTTTTGAAT TTAATAAAAG 120
TTACTTGAAT TTCAAACATC AAA 143

15

SEQ ID NO:2039
SEQUENCE LENGTH:142
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02322

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SEQUENCE DESCRIPTION:
GATCTGGAGG AGGTGAAGGC CAAGGGACCT GCTTCTATTA GCCCTTCTCC ATGGCCCTGC 60
CATGCTCTCC AAACCACTTT TTGCAGCTTT CTCTAGTTCA AGTTCACCAG ACTCTATAAA 120
TAAACCTGA CAGACCATGA AA 142

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SEQ ID NO:2040
SEQUENCE LENGTH:156
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02323

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SEQUENCE DESCRIPTION:
GATCGAAAGA AGAACATCAT GAAAAAANAAA TNAACCTTGC TTAGTGGATT AGACTCCTTT 60
GCTGAAGTCA GTTATTCATC AAGAATGCAA TTAGACTAAT TGTGAATAAA TGATTGAATG 120
AAGATATAAT AAATAAAAGC TATAATTATA GATAAA 156

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SEQ ID NO:2041
SEQUENCE LENGTH:138
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02324

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SEQUENCE DESCRIPTION:
GATCTCTCCT TCAGTCTGCT CTGTTTAATT CTGCTGTCTG CTCTTCTCTA ATGCTGCGTC 60
CCTAATTGTA CACAGTTTAG TGATATCTAG GAGTATAAAG TTGTCGCCCA TCAATAAAAA 120
TCACAAAGTT GGTTTAAA 138

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SEQ ID NO:2042
SEQUENCE LENGTH:137

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02325

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SEQUENCE DESCRIPTION:

GATCCACAGG CAGAGCCAAG GGAAGGTGTG ATTCTNTGAG GAAAGAGTGA TTCTGATATA 60
TGTACTTGTG ACATTGGTGT TGGACACATT TGCGCCAAAA GTATGGTAAT NCTATTATNA 120
AATAATTCTC TGAGAAA 137

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SEQ ID NO:2043

SEQUENCE LENGTH:134

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02326

SEQUENCE DESCRIPTION:

GATCCAAACT GGAANCAGCT CAAATNTCCA TCAATAGCAG AAAGATAAAC AAATGTNGGG 60
ATGTNCAGAG CTTGAAATAT GACACANTAT AAAAGGACAA ACTATTAAAA CTCACAACAG 120
CATGGATAAN TCTN 134

20

SEQ ID NO:2044

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS02327

SEQUENCE DESCRIPTION:

GATCCAAGCA GGCCTTGAAT GCAATNGCAA GTGTTTATA GTCCCTTGCT CTTACAACTT 60
GCAGGACAT GTGTTATTT AGAAATTGTG ACTGAGCGGA CCCAAGAATN TAAATAATAT 120
TCATAACCT AAA 133

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SEQ ID NO:2045

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS02328

SEQUENCE DESCRIPTION:

GATCACCTGT AGGGAAATGA AGTGTNCCCT GGAACAAGGA GGTGGGGGCA NTGTGGCCCC 60
TTCCCCAACT GGGGGTGGAC AGCTGTNTCC TGGGGTGGGT TGGTATTAAA GAGGAAAGCN 120
ATTTTTTGA AA 132

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SEQ ID NO:2046

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS02329

SEQUENCE DESCRIPTION:

GATCCCAGGA ACTGTGGGCA CCCATTTTCT GTGTCTCCCA GCCCATTTCC ACTCCTAGTT 60

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TGTCATGGAT AATNTTTGTT GTTCCCTGTG TGATTTTTC CATCAAAATA AAAATTTGAG 120
ACTCGTTAAA 130

5 SEQ ID NO:2047
SEQUENCE LENGTH:130
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02330
10 SEQUENCE DESCRIPTION:
GATCCAAGGT CAAAAAACA AATNCATCAA TTCAGCACAC CACCAACTNA NAGGCTAAGC 60
ATCTTACTGC TAATTCATTG ANGCTGCCAT TTGTCAAGTG CCAAATTGAN TTATTGATTT 120
GTCAATANTN 130

15 SEQ ID NO:2048
SEQUENCE LENGTH:130
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS02331
SEQUENCE DESCRIPTION:
GATCAGATAT ACAAATAAA AGTTTTTAT TTCATTAAAT ATTTAATTAA AACTGCTAAG 60
TTTGAAAATT TTTACCAAGA AATANTTTT ANAAATTTN CTAAGTTGAT AAAGGCTTTT 120
25 AAGCAATAAA 130

SEQ ID NO:2049
SEQUENCE LENGTH:129
SEQUENCE TYPE:nucleic acid
30 TOPOLOGY:linear
CLONE:HUMGS02332
SEQUENCE DESCRIPTION:
GATCTATATT CCCTTATTGC ATTTTCCTTA TGTATAATTT TCCAGATGGT GATGTTACTT 60
35 TTCAGTGAC TCATATGTCT CATTTTCATC TAAATTTAA TGGCAGGAAA CAAGGACTGC 120
ATAGAGAAA 129

SEQ ID NO:2050
SEQUENCE LENGTH:129
40 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02333
SEQUENCE DESCRIPTION:
45 GATCAAAAGC TTATTCNTT TTTTTTTTTT TTCCTTGGTG TAAAGCCAAC ACCCTGTTTA 60
AAANANATAA TTTTTTTTAA TCATTTTCN TCCTTTTTTT TTGCTTCATT NAATAAAAAAN 120
TGGAAAGAN 129

50 SEQ ID NO:2051
SEQUENCE LENGTH:148

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02334

SEQUENCE DESCRIPTION:

GATCTGAACA CCACAGCCCC TGTACTTGGG TTGCCTCTTG TCCCTGAACT TCGTTGTACC 60
AGTGCATGGA GAGAAAATTT TGTCTCTTG TCTTAGAGTT GTGTGTAAAT CAAGGAAGCC 120
ATCATTAAAT TGTTTTATTT CTCTCAA 148

SEQ ID NO:2052

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02336

SEQUENCE DESCRIPTION:

GATCCANCTN TNTCAACCTC CCAAGTAGGA TTACAAGCAT ACGCCGACGA TGCCCAAGAT 60
CCAGAACTTT GTCTATNACT CTCCCAACA ACCTAGATGT GAAAACAGAA TAACTTCAC 120
CCAGAAAACA AA 132

SEQ ID NO:2053

SEQUENCE LENGTH:126

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02337

SEQUENCE DESCRIPTION:

GATCCATCCT TCCTGCCTCC AAGGAGGATA CACAGAGAAT GGCTTCTGT TGTCTTGT 60
ATTTCTTAA CGTGACAGA TGGAACTTC ATTTAAAAAT AAAACAAAA CAACTCAAAA 120
AGGAAA 126

SEQ ID NO:2054

SEQUENCE LENGTH:126

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02338

SEQUENCE DESCRIPTION:

GATCAAAAAA GCTCACGTCG TATTTCTTCT TTTCCTTCT CTTTCTAGA AATTGGGTGT 60
TTGTACCAGA ATGGAATTTT GCTTCTCGGT TATCTGTGC TTCAGATGAT TATAATCTAA 120
CCCAAA 126

SEQ ID NO:2055

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02339

SEQUENCE DESCRIPTION:

GATCAATCT TACAGTCAT CACAGATCC ATGTTGGTGA TAAATNCTAT AAAAGTAATA 60

EP 0 679 716 A1

GGGGTGGTAA GAACATCAGA GANTCCACAC AGGAAAAAAAA ATCTATAAAA NGATTCTTTG 120
TGAAA 125

SEQ ID NO:2056

SEQUENCE LENGTH:124

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02340

SEQUENCE DESCRIPTION:

GATCCACAG AAATGTTTG GAGAGCGGGA GGTTCCTCC AATCTCTCC AAGTTCTTCT 60
CCCTCCAACC AGAGTTGTGT CTAACCTTAG GCATCTTTA ATAAATNTNA TTGCGACTCT 120
GAAA 124

SEQ ID NO:2057

SEQUENCE LENGTH:207

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02341

SEQUENCE DESCRIPTION:

GATCACTTCT GAATAAGCAG TTGCTTTA TAAAACTTG CTGCCTGNCT AAAGATTAAAC 60
AGGTATAGT TAAATNTGT AATTAATGCT ACCATCTTGC AATAAAGTGA CAATTGAATG 120
NAACAGGGTT TTTCAAGTTG TATAATTCTC TGAAATACTC AGCTTTTGTG ATATGGGTAA 180
AANTTAAAGA TGTATTGGN CTACAAA 207

SEQ ID NO:2058

SEQUENCE LENGTH:120

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02342

SEQUENCE DESCRIPTION:

GATCTTACT CTTGAGAAAT GAATAAGCTT TCTCTCAGAA ATGCTGTCCC TATACACTAG 60
ACAAAAGTGA GCCTGTATAA GGAATAAATG GGAGCGCCGA AAAGCTCCNT AAAAAGCAAA 120

SEQ ID NO:2059

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02343

SEQUENCE DESCRIPTION:

GATCCAAGGT ATCCNTAACA NTGGAGCAGC CAAGTTTNTT TTCAGGCACA ATGACCCTGA 60
CCACCTAAAG AAAGTTNTAG AGAAGTNTAA CCCTAAGATA CCCAAAATTT TGGCCTTN 119

SEQ ID NO:2060

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS02345

SEQUENCE DESCRIPTION:

5 GATCCCCCTCT TCTCAGACAG CGCCAGGCCG GGGTGGGGCC GGGGTTGGGG CCGAGCCCCA 60
CAGCTGCCCC CCTCCNTCC CNTTTGTAT AATTTAATAA AGAAATGGTC GCGCTTCTGT 120
TTTTAAA 127

10 SEQ ID NO:2061

SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02346

15 SEQUENCE DESCRIPTION:

GATCGAGGTG GAGAAGATGC GCGGGGCGGA GNCTTATNAC CGNNTAGAGA ACAGCCCACA 60
GNTGGATGGG AGCCCCCAG GGCTCGAGGG TCTGCTGGGG GGCATTGGGG AGAAAGN 117

20 SEQ ID NO:2062

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02347

25 SEQUENCE DESCRIPTION:

GATCTGCTGA GGACACATGC GCTTTTGTAG AATTTAACAT CTGGTGTTT TCTGAAAAA 60
TATATATACA TATATTGCTT TATTGAAAC AAATNAAAAT ATGCTGCATT TGAAG 115

30 SEQ ID NO:2063

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02348

35 SEQUENCE DESCRIPTION:

GATCTGGAGG AGGTGAAGGC CAAGGTGCTG CCCGCTGGGC CTCCAACGG GCCCTCCTCC 60
CCTCCTTGCA CCGGCCCTTC CTGGTCTTTG AATAAAGTCT GAGTGGGCGG CAAA 114

40 SEQ ID NO:2064

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02349

45 SEQUENCE DESCRIPTION:

GATCCAAAGT ATCAGGTCTG TTAGTGGCCA TCAGCACTTT AATATTGCCT CGAGGAGGAT 60
TTCTTGNCN CNNAATAA GGTCAATTAAG TCTTATGCCA AATTCAGTGC TCCN 114

50 SEQ ID NO:2065

SEQUENCE LENGTH:113

55

SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02350
 SEQUENCE DESCRIPTION:
 GATCCTAGAT AAGCAGGTGA AATTTAGGCT TCAGAAATATA TCCGAGAGGT GGGGAGGGTC 60
 CCTTGGAAGC TGGTGAAGTC CTGTTCTTAT TATGAATCCA TTCATTCAAG AAA 113

SEQ ID NO:2066
 SEQUENCE LENGTH:109
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02351
 SEQUENCE DESCRIPTION:
 GATCTACGCT GTGCCTTGGC AGGGCACAAT GACCTTNTAG ANATCCACCT GTTAGAACGC 60
 CTAGGGGTCT GAACCGGGCT GGNCTGANN C TATCACCTCT TATGCACAN 109

SEQ ID NO:2067
 SEQUENCE LENGTH:108
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02352
 SEQUENCE DESCRIPTION:
 GATCCCAAGG CCTAGCCTGT GAAGGTCTCC TATCGGAAGA NTACCCCAT NNAATGGGAA 60
 GTGGAATTC TGGTCAANTT GGTCTTATG CTCTGGAAGA CGTAAGAN 108

SEQ ID NO:2068
 SEQUENCE LENGTH:108
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02353
 SEQUENCE DESCRIPTION:
 GATCTTAAGC AAAAATACTC ACTGAAATAG TATGTGGATG AATTCACCTA CTTACAATT 60
 TATGTTTCT TTGTAAATAA TAAATGTGAA TCTCAATTCT GCTTTAAA 108

SEQ ID NO:2069
 SEQUENCE LENGTH:104
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02354
 SEQUENCE DESCRIPTION:
 GATCCTNGGC TCCACCTGGG TGGCCCTGAC CACGGGAGCC TTGGGCCTAG AGCTGCCCTT 60
 GTCCTNCCAG GACCCCNCC TGGCCACTGC CCGCCTACTN NCTN 104

SEQ ID NO:2070
 SEQUENCE LENGTH:408

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02355

SEQUENCE DESCRIPTION:

GATCAGAGCT GCTGAGTTCA GGATGCCTGC GTGTGGTTTA GGTGTTAGCC TTCTTACATG 60
 GATGTNAGGA GAGCTGCTGC CCTCTTGGCG TGAGTTGCGT ATTCAGGCTG CTTTGTCTGC 120
 CTTTGGCCAG AGAGCTGGTT GAAGATGTTT GTAATCGTTT TCAGTCTCCT GCAGGTTTCT 180
 GTGCCCCTGT GGTGGAAGAG GGCACGACAG TNCANGCGCA NGTTCCTGGG CTCCTCAGTC 240
 GCAGGGGTGG GATGTGAGTC ATGCGGATTA TCCACTCGCC ACAGTTATCA GCTGCCATTG 300
 CTCCTGTCC TGTTCCTCCA CTCTCTTATT TGTGCATTG GTTTGGTTTC CTGTAGTTTT 360
 AATTTTTTAA TAAAGTTGAN TAAAANTATA AAAANAAGAG NNGGCGNN 408

SEQ ID NO:2071

SEQUENCE LENGTH:101

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02356

SEQUENCE DESCRIPTION:

GATCAAAAAGC TTATTCATCT TTTTCTTTT TCCTTTGGTG TAAAGCCAAC ACCCTGTTTA 60
 AAAANCATAA TTTCTTAAN CNATTTTCCC TCTTCTCNT N 101

SEQ ID NO:2072

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02357

SEQUENCE DESCRIPTION:

GATCAAAAAA AGAGTTTGAA GCTAATTTG GCAAAATTCA GGCCAAAAAA GTAAGGCCAT 60
 TATTTAACCC TGTGGCACCA TTAAATGTTG AAGAATGACA AA 102

SEQ ID NO:2073

SEQUENCE LENGTH:95

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02358

SEQUENCE DESCRIPTION:

GATCTTTTTT GTCAGTTTGT TTGTATGAAA CTAAAGCCNT TATTGTGTTA TAGTTCCTGC 60
 TAAAACAATG AATAAAAACT CAAGGAGCAA CTAAG 95

SEQ ID NO:2074

SEQUENCE LENGTH:92

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02359

SEQUENCE DESCRIPTION:

EP 0 679 716 A1

GATCGTCTCT AGGATGATAT GCATGTTTCA AGTGGTATTG AAAGCCGCAC TGATGGATAT 60
GTAATAATAA ACATATCTGT TATTAATATA AA 92

5 SEQ ID NO:2075
SEQUENCE LENGTH:101
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02360
10 SEQUENCE DESCRIPTION:
GATCTAAGTT AGGAAAGACG ATGGAGGTGG AATCCTTTAA GATTATNTCC AGTTATTTC 60
TTTAATAAAG AAGAAGTTAC CCTGTCAAA ATCAGAACAA A 101

15 SEQ ID NO:2076
SEQUENCE LENGTH:87
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02361
20 SEQUENCE DESCRIPTION:
GATCTTCATT TATTTAATG GTAATGGTTT TAAATATGT TCCTGATTGT ACATATTNTA 60
AAATAACAT GTTTTTTAAC ATGCAAA 87

25 SEQ ID NO:2077
SEQUENCE LENGTH:88
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02362
30 SEQUENCE DESCRIPTION:
GATCACAAAC ATTCAACAAA AAAGTAACT TATGTGACTT GGCAGTTATT CTATACCATT 60
TCCTGTCCAT TAAAATTTT AAAGGAAA 88

35 SEQ ID NO:2078
SEQUENCE LENGTH:85
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02363
40 SEQUENCE DESCRIPTION:
GATCCCATTT AATATTTAAA AAAATCAGTA GCACAAATAT ATNTNAATTG TCAACTTACA 60
AAATAAAATA CATTTACAGT CTAAA 85

45 SEQ ID NO:2079
SEQUENCE LENGTH:82
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02364
50 SEQUENCE DESCRIPTION:

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GATCATCAAA AAAGAGGTAA TCTACGTTAT TTCCTATTCT AATGTCTTTT CCTAATAAAA 60
AACTTCAACT TTCTAAGTTA AA 82

5 SEQ ID NO:2080
SEQUENCE LENGTH:80
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS02365
SEQUENCE DESCRIPTION:
GATCCTTTCG GAATTGCACT TTTACATGTT GGGCGAATTT GTGTCCGTGC TGAAGTTTAT 60
TAAAGGAAAA TAGATGGAAA 80

15 SEQ ID NO:2081
SEQUENCE LENGTH:80
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS02366
SEQUENCE DESCRIPTION:
GATCAAGCCT TGCTTGAGAT TGGCCTTACC TCTGGNCNTT TTTTGTATA TGAGCTAATA 60
AATNCTGTTT ATTGTTTAAA 80

25 SEQ ID NO:2082
SEQUENCE LENGTH:80
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
30 CLONE:HUMGS02367
SEQUENCE DESCRIPTION:
GATCCATGAA GTNATTCAGT GGAAANATGC ACGTTNATAC TATTTNAGAG CACAAATAAA 60
CTCACTATAC AATGGTCAAA 80

35 SEQ ID NO:2083
SEQUENCE LENGTH:76
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
40 CLONE:HUMGS02368
SEQUENCE DESCRIPTION:
GATCAAACCT CAAAGCAGCT TTNACTTGGA ATTTAAAAAT AAACAGTTCA AAGATACTCT 60
ACATTATCAC CNTAAA 76

45 SEQ ID NO:2084
SEQUENCE LENGTH:70
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
50 CLONE:HUMGS02369
SEQUENCE DESCRIPTION:

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EP 0 679 716 A1

GATCCATTTT ATGCAGGATT GTGTTGTTTT AACTGTTGTT GAGGAACTA ATAAATAATT 60
AAATTGTAAA 70

5 SEQ ID NO:2085
SEQUENCE LENGTH:64
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10 CLONE:HUMGS02370
SEQUENCE DESCRIPTION:
GATCTAAGAT GTCCAGGTC CTGGGAAGTT TACTCAATAA AGCTGGCTTT CCCCTGCCCT 60
CAAA 64

15 SEQ ID NO:2086
SEQUENCE LENGTH:64
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

20 CLONE:HUMGS02371
SEQUENCE DESCRIPTION:
GATCCGTTGT AATGATGTGA ACATTTTATG AGTTTAAATA AAGTCATCTT ATGGTGTCAT 60
TAAA 64

25 SEQ ID NO:2087
SEQUENCE LENGTH:61
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

30 CLONE:HUMGS02372
SEQUENCE DESCRIPTION:
GATCTTAAAA TCAGTGATTA TCTTTTCTA AATAAAATAT CACCAGAATT CATCAGTTAA 60
A 61

35 SEQ ID NO:2088
SEQUENCE LENGTH:60
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

40 CLONE:HUMGS02373
SEQUENCE DESCRIPTION:
GATCTAAGAT GTCCAGGTC CAGGAAGTTT ACTCAATAAA GTGGCTTTCC CTGCCANAAA 60

45 SEQ ID NO:2089
SEQUENCE LENGTH:66
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

50 CLONE:HUMGS02374
SEQUENCE DESCRIPTION:
GATCTCCGGG CAGCCACCAC CTCCTCGGTC TGCCCCCTCA TTAATTC ACGTCCACC 60

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CTGAAA

66

SEQ ID NO:2090

SEQUENCE LENGTH:59

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02375

SEQUENCE DESCRIPTION:

GATCATGCAA AGAAACTTC CAAAAGATT TATTAACCTA AACCAGCCTC TNTNGCAA 59

SEQ ID NO:2091

SEQUENCE LENGTH:74

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02376

SEQUENCE DESCRIPTION:

GATCTCAAAT TGCCTCTGAA CCTTTTATAA GACAGTTTAT CTTCAAATAA ATTTATTTTG 60

CAATACCACG CAAA 74

SEQ ID NO:2092

SEQUENCE LENGTH:56

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02377

SEQUENCE DESCRIPTION:

GATCAAAGTC TATTTTGCAT AAAATGTCCA ATAATTAAAT ATTGTTATAA AATAAA 56

SEQ ID NO:2093

SEQUENCE LENGTH:55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02378

SEQUENCE DESCRIPTION:

GATCGGCAGT TGGGAGGGGC GCTCTGAGAT TAAAGAGTTT TACCTCTGAG ATAAA 55

SEQ ID NO:2094

SEQUENCE LENGTH:54

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02379

SEQUENCE DESCRIPTION:

GATCCANTCT TTGACAACT GAAAAGAACT GAAAATAAAC ATTGCTCTTT CAAA 54

SEQ ID NO:2095

SEQUENCE LENGTH:52

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02380

SEQUENCE DESCRIPTION:

GATCCCTGCC CCTCCCCACT GGGACGGAAT AAATGCTCTG CAGACCTGGA AA

52

SEQ ID NO:2096

SEQUENCE LENGTH:266

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02382

SEQUENCE DESCRIPTION:

GATCTGCTTA TAGAGCAGGA AGAATAAAGC CACCAACTTT TACCTAGCCC GGCTAATCAT 60

GGAAAGTGTGN CCAGGCTTCA AGTAACTTGA GTTTTAATTT TTTTITTTTC TTGGNAGAGT 120

AATGTAAAAT TTAATGGGG AAAGATATTT AANATTTAAT ACTAAGCTTT AAAAAGAAAC 180

CTGCTATCAT TGCTATGTAT CTTGATGCAA AGACTATGAT GTTAATAAAA GAAAGTACAG 240

ANGACACTTG GCATTCAAAG NTTAAA 266

SEQ ID NO:2097

SEQUENCE LENGTH:451

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02399

SEQUENCE DESCRIPTION:

GATCTAGAGA GTGCTCAGAA TTAGGGCCTG GCATTTGGAA TCACAGGANA TATCATCACA 60

GAAACAACTG TTTTAAGATT AGTTCCATCA CTCTCATCCT GTATTTTAT AAGAAACACA 120

AGAGTGCATA CCAGAATTGA ATATACCATA TGGGATTGGN GAAAGACAAA TGTGGAAGAA 180

ATCANNNGNC TGGAGACTAC TTTTGTGCTT TACAAAACCTG TGAAGGATTG TGGTCACCTG 240

GAACAGTCTC CAATCTATGT TAGCACTATG TGGCTCAGCC TCTGTTACCC CTTGGNITAT 300

ATATCAACCT GTAAACATGT GCCTGTAAC TACTTCCAAA ATCAAANTCA TACTTATNG 360

AGGAANATTC TGATTTTNTA GANAAAAANT NGAGCNAGGN GATTATANCN TGTTTGCAAG 420

TCATGTGGTT TCTTTCTCAA TNGGGGGNNA N 451

SEQ ID NO:2098

SEQUENCE LENGTH:441

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02400

SEQUENCE DESCRIPTION:

GATCCCAAAC TGTTCCTTT TTCATTTCTT GAAATGTTAC CACTACAGAC ATTTTTTNAA 60

GGTGAATAAA CAGTTGTNAT GTGCTGTACC TAAATCATG TTTAATCGTA TAAGGAAACA 120

TTTCAATACA CTTATACAGG AAGAAAACTA TAGATGAAGT ACATGTGTGT GATTCAGTCT 180

GATTCACAGA ATTCTGAGAG TAATATGGAA TAAACAACCT CCACTTAGAT GATAACTGAA 240

GCATTTCTG CCTGTGAAA ATTTGGNTTT TAAATGCTG TTAGAATGGG NAATTGGAC 300

ACTTTATATC ATTGTATANT TNCAGACTTT AGNTTCTGTA TCTNTTGGGA ACCATGGTTA 360

TAGCAAAACC NTTGGNAATA ATCCTGTTTC CNANACCNC CTNNATGTAA ACCTGGTATG 420
CTTGGCTGGT AACNCCTAAG N 441

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SEQ ID NO:2099
SEQUENCE LENGTH:440
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02401

SEQUENCE DESCRIPTION:

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GATCTATGTC TNCCTGCCTGG CTCCTAGATG GCTCTCCGGG CAGGTNCTGG CCAAGGACAT 60
CATCTAGGCA GGGGGAGAGC CTGGNCTGAA CAGCTGTNAC CAAAACTCCC TTCTNCCCCA 120
CCCTGCCCCC TCCACTTCCT GCCCTCTGTT CCATCTTCCC CCTTCCCAA GGGCACAGCC 180
TTTATTCCAG GCCCAGGGAT GTAGGAGGGG GAAGGAGGAA ACAGGAAGCC CAGAGAGGGC 240
AAAGGGCCTA CCTCGGGGGC CGAACCATGC CCCANACTAT TATCTCAGGG CTTTCTGGGC 300
ACTNGCACTT CAGCGTGGCC CACCTGCCCA TGGCCTGAGG CCAGTTNGCG AGGGGTGGCT 360
CCTGAGGGTT TTTATAACCT TTGTTTGNTA ATGTTTAATT TTTGCATCAT AATTCTACA 420
TTGTCCTGG AGTGTAAGAN 440

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SEQ ID NO:2100
SEQUENCE LENGTH:411
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02402

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SEQUENCE DESCRIPTION:

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GATCAAAAGG CTGAAAGGTT TGCTACCCA GCACGGCATC CCCTACACGA GGGCCACAGA 60
AACTTCCAAC TTGGAGCACT TGGGCCACGA GACGCCCAGA GCCAAGTCTC CAGAGCAGCT 120
GCGGGGTGAC CCAGGACTGC GTGGGAGTTT GTGACCTTGT GGTGGGAGAG CAGAGGTGGA 180
CGNGGCCGAG AGCCCTACAG AGAAGCTGGC TGGTAGGACC CGCAGGACCA GCTGACCAGG 240
CTTGTGCTCA GAGAAGCAGA CAAAACAAAG ATTCAAGGTT TTAATTAATT CCCATACTGA 300
TAAAAATAAC TCCATGAATT CTGTAAACCA TTGCATAAAT GCTATAGTGT AAANAAATTT 360
AACCAAGTGT TACTTTAAAC AGTTCGTACA AGTAATGNTT ATAATTCTAA A 411

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SEQ ID NO:2101
SEQUENCE LENGTH:408
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02403

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SEQUENCE DESCRIPTION:

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GATCTGGAAA GCTTGAGCCT CCTTGGGTTT GTCTACAAAT TGGAAGGAAA TATGAATGAA 60
GCCCTGGAGT ACTATGAGCG GGCCTGAGA CTGGCTGCTG ACTTTGAGAA CTCTGTGAGA 120
CAAGGTCCTT AGGCACCCAG ATATCAGCCA CTTTCACATT TCATTTCATT TTATGCTAAC 180
ATTTACTAAT CATCTTTTCT GCTTACTGTT TTCAGAAACA TTATAATTCA CTGTAATGAT 240
GTAATTCCTG AATAATAAAT CTGACAAAAT ATTAGTTGTG TTCAACAATT AGTGAAACAG 300
AATGTGTGTA TGCATGTAAG AANGAGAAAT CATTGTATG AGTGCTATGT AGTAGAGAAA 360
AAATGTTAGT TAACTTTGTG GGAATAAAAA CATTGGACTT AACTAAA 408

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SEQ ID NO:2102

SEQUENCE LENGTH:397

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02404

SEQUENCE DESCRIPTION:

GATCCGAGAG GTGCCAACA AAGTCAAGGT CCCCTGCTG GATTAGGCA GGGCCAACT 60
 GGCCATGCAC TCTATCCGN AGATGGCCTG CACCACAGGA GTCCTCCANA CCCTNACCCT 120
 CTTCAAGGGC TTCTTTAAGC TGTTCCTTC TCTAAGCCAT AATCTCTNAG TGGATTGAGC 180
 CCTCTTGAA AGACTTCTCT GCCATCCCTT TGCACCTGAN AGGGGAAGTT CTCAGCTGAG 240
 CTGAAGCTGG ATTATTAAAG TGGATTGTAA CTCAGACTCT CCGTGCTACG CTTATTTGGA 300
 GACTAGAGGA GTGGGAGTTG AGCCTGGCTT GAACCTTTGG AACCAGAAAA GTTGGGGAGC 360
 AGGTGGAGGA GGCCACACTC CTGGGAGCTT GATGGTN 397

SEQ ID NO:2103

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02406

SEQUENCE DESCRIPTION:

GATCAGCCCT TTTCCCATC CTGCCCTATG GTTCTCTAGC CACCTGTGCA TGCATGTGTA 60
 TTTCTGCCTN GTTCTATGGT GTGTGGATGT GTGTGCATGA ATCTGTCATA TAGAGGGGGT 120
 CCGAGCTGGA ATCCTAGAGC ATTGCTGCCC TGGGGCCTGA TGTCTTGGC TTCCTCAGAG 180
 CATGTAACAG GAAATTAAAT GGGATGAGTG TTTGGTAAA 219

SEQ ID NO:2104

SEQUENCE LENGTH:380

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02408

SEQUENCE DESCRIPTION:

GATCCTACCT CCAACTCCTG ACTCTATAGG TCTCACTCTT TTTTATTGT CCTANNNTA 60
 CATAACATAA AATTTATAAA TTAAATATTC TAGGGTATAG TTCAGTGGTA TTAAGTACAT 120
 TCACACTGAT GTGCAACCAT CATTATCATC CATTCCCAA ACTTTTCATC ACCGCAAATA 180
 GAAAAGCTGT ACCCATGAAA CAATAACTTC CATTGCCTCC CCCTCAGCCT TTGGTAACCT 240
 CTATTCTACT TTCTGTTTCT ATGAATTGGA CTGTTCTAGG TACCTCATAT AAGTGGAATC 300
 ACACAAATATT TGTCCCTTTG TGTCTAACTT ATTTCACTTA GCATGTTTTT AAGATTATC 360
 TGTACTGTAC CATGTATCAN 380

SEQ ID NO:2105

SEQUENCE LENGTH:378

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02409

SEQUENCE DESCRIPTION:

GATCTGTGCT CTCCTAGCCC AAGAGACCCC TGGAGGGGCT GGAGTTTAT CCAGCGNCTC 60
 GTCGTATGTT TGGCTGAGCA CCTGTGGCCT GGGTGCAGGT TAACTTCTTG TTATCAGGAG 120
 CCCACTATGC AGAGGCCAAA GGTCGGCAGC CAGCGAGGCT ATGAATTGGA CCTTTTGGT 180
 ATCTGTGTNA CTGNTCTGTG NCCATNCTTA GNCAACTTGC TGGCGTGACA AGTGCCACACA 240
 AGTAACACAC CAGGTACCCA GAGNAGGGTG GACAGGAGAG ACCTGAATNA CAGCAGTANG 300
 GAATTCCTCA ANGNTGTGNC CTCGCCCATG AANTTGTTC AANTTGAAGG TNANNAGGGN 360
 CACCAATCAG GGTGAGN 378

SEQ ID NO:2106

SEQUENCE LENGTH:374

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02411

SEQUENCE DESCRIPTION:

GATCCAGAAG TACAAGGTGG TCCTGGCCCC GGAGACGGNG GAGTTGAAGA GTGTGGCCCCG 60
 CATTGTCCTG GTTCCCAATA AGAAAGTGGG CCTGCAGTTC CTGCAGAGAC AGTGCTGAGC 120
 TGAGTCTCCG CCTTGTCTGG GCTTGTCTTA GAGGCTCCAG CTCTGGCACA GTGGTTCCTG 180
 GCTGCTGCCA TGTCTCANAT GAGGAGGGAG AGAAGGAGGC CGCCAGACTC GAGAGGTGGG 240
 AGGAACTCCT TGCACACACC CTGAGCTTTT GCCACTTCTA TCATTTTGA GAACTCCCTC 300
 TCAGCTAAAG GGCCACCCCTT TTATCGAATG CTGTCCTTGG GAAGATATAA AATAAAGGGC 360
 TTTTATTCT TAAA 374

SEQ ID NO:2107

SEQUENCE LENGTH:369

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02412

SEQUENCE DESCRIPTION:

GATCCAGCCC GACCTGCGAG ANTGATGGAG ACCATGCACC GCATGAGCCA CCTCCCACCC 60
 GACTTTGAGG GCCGCCAGAC GGTGAGCCAG TGGCTGCAGA CCCTGAGCGG ATGTCGGCGT 120
 CAGATGAGCT GGACGACTCA CAGGTGCGTC AGATGCTGTT CGCCTGGAGT CAGCCTACAN 180
 CGCCTTCANC CGCTTCCTNA TGCCTGAGCC CGGGGANTAG CCTTGNACAG CCGGGAGAGT 240
 CTGAGGCNTG GTCCTGGTCC CTGTCCGCAN AGAGGCCGTG NNATCACANA GCTANTGTCT 300
 GAGTGGCTGT CTGGNTCTGC TTTGGTAAG ACTTTGGGGC CGGCCTCCCA NAATAAGGTG 360
 TCTCGGAAA 369

SEQ ID NO:2108

SEQUENCE LENGTH:368

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02413

SEQUENCE DESCRIPTION:

GATCAGAGCC AAGAAGCGTC TGCGGCAGAG TGGGGAAGAG TTGCCGCCAA CCTCCTAGGC 60
 GCCCGGCCCA GCTCCCTTTG ACCCTGGGG CAGGGCAGGG GGCAGGGAGA GACAAGGCTG 120

CTGCTATTAG AGCCCATCCT GGAGCCCCAC CTCTGAACCA CCTCCTACCA GCTGTCCCTC 180
 AGGCTGGGGG AAAACAGGTG TTTNATTTGT NACCGTTGGA GCTTGGATAT GTNCGTGGCA 240
 TGTGTGTGTN TGTGTNANAG TGTGAATGCA CAGGTGGGTA TTTAATCTGT ATTATTCCCC 300
 GTTNTTGGAA TTGNNTTCCC CNATGGGNCT GGGGTACTTT ACATTCAATA AATACTGTTT 360
 AACCCAAA 368

SEQ ID NO:2109
 SEQUENCE LENGTH:368
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02414

SEQUENCE DESCRIPTION:
 GATCACAGGA AGTGGAGGAG CCAGAGGTGC CTTTGTGGAG GACAGCAGTG GCTGCTGGGA 60
 GAGGGCTGTG GAGGAAGGAG CTTCTCGGAG CCCCTCTCA GGCTTACCTG GGCCCCCTCT 120
 CTAGAGAAGA GCTCAACTCT CTCCCAACCT CACCATGGAA AGAAAATAAT TATGAATGCC 180
 ACTGAGGCAC TNAGGCCCTA CCTCATGCCA ACAAAGGGT TCAAGGCTGG GTCTAGCGAG 240
 GATGCTTGAA GGAAGGGAGG TATGAGACCG TAGGNANAAN GGCACCATCC TCGTACTGTT 300
 GTCACATGA GCTTAAGAAA TTTGATACCA TAAAATGGTA AAGACTTGAA AAAAGTANAA 360
 NATGTTTN 368

SEQ ID NO:2110
 SEQUENCE LENGTH:368
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02415

SEQUENCE DESCRIPTION:
 GATCTTGGTT TTGATGTGA CATAGGCCCT CTTTCCAGA CTCCTCGTGA AGTGGCCCAG 60
 CAGGCTGTGG ATGCGGATGT GCATGCTGTG GCGTAANAC CCTCGCTGCT GGTCAATAAA 120
 CCCTAGTTCC TGAATCATC AAAGAATTA ACTCCCTTGG ACGGCCAGAT ATTCTTGTC 180
 TGTGTGGAGG GGTGATACCA CCNTCAGGAT TATNAATTTC TGTGGAAGT TGGTGTTC 240
 AATGTATTTG GTCCTGGGAC TCGAATTCCA AAGGCTGCCG TTCAGGTGCT TNATGATATT 300
 GAGAAGTGT TNGAAAAGAA GCAGCAATCT GTATAAATA AAAATATCAC AAGAGAACAC 360
 CTGTACTN 368

SEQ ID NO:2111
 SEQUENCE LENGTH:365
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02416

SEQUENCE DESCRIPTION:
 GATCGAAAGA AATCTAAGTG ATACGGCCCA ATGAAGCTAA AATATAGCCT TCTGTAAAGC 60
 AAATAGTATT TCCTTTCCCC AAGTAGTTCA TTTCTAGAT GCTTGTCAAA TGAATTAATG 120
 TCCTCTGATG AAGAGTGTCC TTCCGTTTCT AAGGTCTTCT CAATCTCAGC AATAGAGCTT 180
 CCCAGCAGCG TTCAAGACAC ATCATTATA CACAGGCACA GGGGCTTCC TGAATGGGT 240
 GCATTTTAC CAACTACAAT CATGTAATTT TTTTGAAAT TTTTAAAT TTTGNTNCT 300

TTACATTACA ATTGGGTGAA ACACATTTTA CAGCTCTCAA TAAATGTTTG CTGGTCGCTC 360
TGAAA 365

5 SEQ ID NO:2112
SEQUENCE LENGTH:363
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02417

10 SEQUENCE DESCRIPTION:
GATCAACGAT TACGTGGAGA AGGGTACTCA AGGGAAAATT GTGGATTTGG TCAAGGAGCT 60
TGACAGAGAC ACAGTTTTTN CTCTGGTGAA TTACATCTNC TTTAAAGGCA AATGGGAGAG 120
ACCCTTTGAA GTCAAGGACA CCGAGGAAGA GGACTTCCAC GTGGACCAGG TGACCACCGT 180
15 GAAGGTGCCT ATNATGAAGC GTTTAGGCAT GTTTAACATC CAGCACTGTA AGANGCTGTC 240
CAGCTGGGTG CTGCTGATGA AATACCTGGG CAATGCCACC GCCATCTTCT TCCTGCCTGA 300
TGAGGGGAAA CTACAGCACC TGGAAAATGA TTGACCAAAA TACCAAGTCT CCCCTTCTTC 360
ATN 363

20 SEQ ID NO:2113
SEQUENCE LENGTH:362
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02418

25 SEQUENCE DESCRIPTION:
GATCCCAGTC GCATACCAGG TGTCTCTCTC CAGGTCGTGA ACGGCAAAGG CACTGCCCCG 60
ATCGCCATAG CAGGTGTCTT CTTGGTACTT AGACATGCCA GCACAGAAGG TGTGTTTATT 120
CAGTATGGGC TGCACCCCTA CAGGGCTCTT CGGTGTCTTC CATCCAGGAC TGGGTTCAGA 180
30 AGACCATAGC TGAGAACTAA TGCAAGGCTG GCCGGAAGCC CTTGCCTGAA AGCAAGATTT 240
CAGCCTGGAA GAGGGCAAAG TGGACGGGAG TGGACAGGAG TNGATGCGAT AAGATGTGGT 300
TTGAAGCTTG ATGGGTGCCA GCCTGCATTG CTGAGTCAAT CAATAAAGAG CTTTCTTTT 360
GN 362

35 SEQ ID NO:2114
SEQUENCE LENGTH:362
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02419

40 SEQUENCE DESCRIPTION:
GATCNGACAG GCACCAGCAA TGACACAGCA TAACTGTTG GGCACAGGAA AGAGGCTTGA 60
CACCACCAGC CCACCAGGAA ATGCAGTTCA GCCACCACGA GGACACGAGG AACCTGCACC 120
45 ACAGCCGCAG TCAAGAGAAT GCTGGTGGTG CCAAGNTGCA GGGTGTGGCC TGCTGGAATG 180
GAAGCGCATG GTGGTNNCTA TAAAGTCAAT GNCACAGCAC ATGCCAGCA ATCCACTGTG 240
GGATTNGNA TGANACTANG CNCATAAAAC TGTNCGAATT TTNCTGTGCT TTTCATATCN 300
TCAATNTGAA TCAANTGCTT CATTGGGTAC TGTAAGTGTG GNTACTTNAG TGAATCTCTN 360
TN 362

50

55

SEQ ID NO:2115

SEQUENCE LENGTH:355

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02420

SEQUENCE DESCRIPTION:

GATCATATAG TAGGTTTAGG TTAACTTTT TAAGAAATTG CCAAGCTTTT CCAAAGTGGC 60
 TGTCCCTCTT TACATTCCA CCAGCAATGT ATAATGAATG GTTCAGGTTT CTCCACATT 120
 TTGTCGGCAC TTGGACTTTT CTGTTTGTG GTAGCCATTG TAGTGGATGC AAAGTGGCAT 180
 CTCATTATGG TTCATTGCA TTTCTCTGAC AACTAATGAT TTTGAGCATC TTCATGCGAT 240
 TGTTAACCAT TTGTATATCT TTAGTGAAAT ATCTATTCAA TTATTGCCCA TTTTAAATT 300
 GGNTCACATG GCTNATTAAT GNATTGTAAG AAAGGTTTAC ATATTCTTGG ATACN 355

SEQ ID NO:2116

SEQUENCE LENGTH:350

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02421

SEQUENCE DESCRIPTION:

GATCATGATT TTGTAGTACA GGAAGACTTC ATGAAAGCAG TCAGAAAAGT GGCTGATTCT 60
 AAGAAGCTGG AGTCTAAATT GGAATACAAA CCTGTGTAAT TTAGTGAAG ATTTTGATG 120
 GCTGCATGAC AGANGTTGGC TTATTGTAAA AATAAAGTTA AAGAAAATAA TGTATGTATT 180
 GGTAAATGATG TCATTAAAG TATATGANTA AAAATATGAG TAACATCATA AAAATTAGTA 240
 ATTCAACTTT TAAGATACAG AAGAAATTG TATGTTTGT AAAGTNGCAT TTATTGCAGC 300
 ANGTACAAA GGGGAAGTGT TGAAGCTTTT CATATTTGCT GCGTGACATN 350

SEQ ID NO:2117

SEQUENCE LENGTH:375

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02422

SEQUENCE DESCRIPTION:

GATCCGCAGN CAGAAGCTCT GCCCTTCTGT ATCCTATGTA TGCAGTGTNN TTTNCTTGC 60
 CAGCTTGGGC CATTCTTGCT TAGACAGTCA GCATTTGTNT CCTCCTTTAA CTGAGTCATC 120
 ATCTTAGTCC AACTAATGCA GTCGATACAA TGCCTAGATA GAAGAAGCCC CACGGGAGCC 180
 AGGATGGGAC TGGTCGTGTT TGTNCTTTN TCCAAGTCAG CACCCAAAGG TCAATGCACA 240
 GAGACCCCGG GTGGGTGAGC GCTGGCTTCT CAAACGGCCG AAGTTGCCCTC TTTTAGGAAT 300
 CTCTTTGGAA TTGGGAGCAC GNTGNNCTCT TGAGTTTGGG GCTTTTAAAA GTACTTTNTT 360
 TACCACATTT GGAAA 375

SEQ ID NO:2118

SEQUENCE LENGTH:339

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02423

SEQUENCE DESCRIPTION:

GATCTCTAAC CAGAAATAAA CAGGAAGACT CAGTNGTTTA CAAAAGACAT TTTAGTTTAA 60
 CACGTACAGA AAATTCTACC CNGGCATTAC AGAATTCTTA GACTTCTTAA ATTCTTGATT 120
 TTCCTTGGTA TTTACATTTT GATAAGGGAG CCAATGGTTC TTCAAACATT TGAAGAAGAAC 180
 ACATACACAC TGGACAATTT CAAACGNTAC AAACAAACGC AACTGTCCTT CTTTCTCATT 240
 CCTGTCTTC AGCCACCCAG TTTCTTCTCC CCTGAGGGAA TCAGTTATCA TTNGCTGGGT 300
 CATACTTCCA GATTATCCTG TGCCTATGTA AGTGTGTGN 339

SEQ ID NO:2119

SEQUENCE LENGTH:334

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02424

SEQUENCE DESCRIPTION:

GATCTGGGAC GTNCACGAGT NAGGGGCTGG CCACCCAGCC CACAGCCTTG CCTGACCACC 60
 CTCCACGAGA TAGACGCCGG CACCCCTTCC TCTTCTAGG GTGGAAGGGG CCCTGGTNCN 120
 NGCCTGTAGA CCTATCGGNT CTCATCCCTT GGGATAAGCC CCAGTCCAGG TCCAGGAGGC 180
 TCCNTCCCTG CCCAGCGAGT CTTCCAGAAG GGGTGAAAGG GTTNCAGGTC CCGACCACTG 240
 ACCNTTCCCG GGTGNCCTCC CTCCCCANCT TACACCTNAA GCCCAGCAGC NAGTAGNCTT 300
 TGAACAGAGG GAGGGAAGGA CCCATGGGTC TCCN 334

SEQ ID NO:2120

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02425

SEQUENCE DESCRIPTION:

GATCAAAGAG AAAATAAAAA ATCGCTACTT CCCTGCCTTT GAAAAAGTCT TAAAGAGCCA 60
 TGGACAAGAC TACCTTGTTG GCAACAAGCT GAGCCGGGCT GACATTATC TGGTGGAAGT 120
 NCTCTACTAC GTCGAGGAGC TTGACTCCAG TCTTATCTCC AGCTTCCCTC TGCTGAAGCT 180
 CTCCAGGACA CTGGCCCCC ACACTGTATC TCTCACTGAG AAAAGGTGGT CCCATGGCCC 240
 TGAACACAG AATNAGCAAC CTGNCACACA GTGAAGAAGT TTCTACAGCC TNGGCAGCCC 300
 AAGGAAAGCC TCCATTGGA TGAGAAATCN 330

SEQ ID NO:2121

SEQUENCE LENGTH:327

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02426

SEQUENCE DESCRIPTION:

GATCGAAGTA AAATAGAAAT GGGACTNGCT TTCCACAGGA AGTAAACTGC TTCAGAGCCC 60
 ACAGTCCCT GCTCAGTGC CGGAAAGAAG TCAGTCATCC CTGTTGGCAG TAAATCTTCC 120
 CACAGGCCGT CCATTAGAGA TTAACTAGA TATGTTCAAT AGAAAGAGTC TGAGGCAAGT 180
 GGAAATGAGG NNCGGAACT TAGGTTGGGA GAATATTTT NNTNTATTCA TTCTGTTTGC 240
 TTAATTCAGA GTACAGTTG TGCTATTCA TATCTGTACT CCAGGCAGAA ATATAACTTG 300

AAAATACTGT GTCTAAAGAA ATTTTCAN

327

SEQ ID NO:2122

SEQUENCE LENGTH:324

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02427

SEQUENCE DESCRIPTION:

GATCCTCGTC ATCAAGGATG GCTGCATCGT GGAGAGGGGA CGACACGAGG CTCTGTTGTC 60
CCGAGGTGGG GTGTATGCTG ACATGTGGCA GCTGCAGCAG GGACAGGAAG AAACCTCTGA 120
AGACACTAAG CCTCAGACCA TGGAACGGTG AAAAAAGTTT GGCCACTTCC CTCTCAAAGA 180
CTAACCAGGA AGGGAATAAG ATGTGTCTCC TTCCCTGGC TTATTTTCATC CTGGTCTTGG 240
GGTATGGTGC TAGCTATGGT AAGGGAAAAG GACCTTCCG AAAACATCT TTNGGGGAA 300
ATAAAAATGT GGACTGGTGC GAGN 324

SEQ ID NO:2123

SEQUENCE LENGTH:355

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02428

SEQUENCE DESCRIPTION:

GATCTGAACA TTCAAAGAA AGCTTTGGAA AAAAGAGCT GGCTGGCCTA AAAACCTAAA 60
TATATGATGA AGATTGTAGG ACTGTCTTCC CAAGCCCAT GTTCATGGTG GNNCNNTGGT 120
TATTTGGTTA TTTTACTCAA TTGGTTACTC TCATTGAAA TGAGGGAGGG ACATACAGAA 180
TAGGAACAGG TGTTTGCTCT CCTAAGAGCC TTCATGCACA CCCCTGAACC ACGAGGAAAC 240
AGTACAGTCG CTAGTCAAGT GGTTTTAAA GTAAAGTATA TTCATAAGGT AACAGTTATT 300
CTGTGTTTAT AAAACTATAC CCACTGCAAA AGTAGTAGTC AAGTGTCTAG GTCTN 355

SEQ ID NO:2124

SEQUENCE LENGTH:324

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02429

SEQUENCE DESCRIPTION:

GATCTCAGAA CTGAAGGCCG CCTTGACATG AAGACTGAGC TCTTTTCCAG CTCATGCCCA 60
GGTGGAATCA TGCTGAATGA GACAGGCCAG GGTACCAGC GCTTTCTCCT CTACAATCGC 120
TCACCACATC CTCCGAAAA GTGTGTGGAG GAATTCAAGT CCCTGACTTC CTGCCTGGAC 180
TCCAAAGCCT NCTTATTGAC TCCTAGGGAA TCAAGAGGCC TGTGAGCTGT CCAATAACTG 240
ACCTGTAAGT TCATCTAAGT CCCAGATGG GGNACANTGG GGAGNTNGAG TTGTTGGAGG 300
GAGGAAGCTT GGAGACTTCC CAGN 324

SEQ ID NO:2125

SEQUENCE LENGTH:324

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

EP 0 679 716 A1

CLONE:HUMGS02430

SEQUENCE DESCRIPTION:

5 GATCCATCTT CATCCATTGC ATTGGAACT NCTTTATGCT GCTGCAGTCT GCAAAGTCTA 60
GAGCTTTTAT CAGGCCATGT CATACCCAAG AAAGCACCTA TTAAAGAAA AAACAATTCC 120
CTGAGCTCTC AACTCCAAGT TGTAGATTG GTGTCTTCCT TGTCCTTACT TAAAAAGTC 180
ATGTGTTAAT TTTNNTCCTG CCTGTATTG TATGCAAAAT GTCCTCTATC TGCTATNAAA 240
GAAAAGCTAC GTAAACCACT ACATTGTANC CTTCTAAGTN ATTNTTAATT AGNAGGGNAT 300
TATNTTGCAG TACCANTTGG GAAA 324

SEQ ID NO:2126

SEQUENCE LENGTH:321

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS02431

SEQUENCE DESCRIPTION:

20 GATCGTGAAG ACCTGCTGAG CCAGCCTGTT CTCGGGGCCT GAATGTCTGG GGTGCTTGTG 60
CCTTTTCTGA GAAGCGTTGT GACTGCTCAA CATCCCCATC AAGGTTTGAG TCCACAAAAG 120
TGGACCTCCC TATCATGCTT CCCCTTCCCT CTAGCATGTG GGAAGGGACT GCTGTGAAGA 180
ATGNCAGATG TGGGGCCTCT GCCAAGTCT TGCATTGCTA AATAAGGGCT TCCTCTGCCT 240
TCTACCTACA GTGCATTGA ACTGCCTTCT GAAAGAGGTC CAGGGAGGGA TTAGGAAAT 300
AAAGNTTCTA CCTATTTGAA A 321

25 SEQ ID NO:2127

SEQUENCE LENGTH:319

SEQUENCE TYPE:nucleic acid

30 TOPOLOGY:linear

CLONE:HUMGS02432

SEQUENCE DESCRIPTION:

35 GATCCTAAGC GAAGATGGAT TTCAGTTCAT CAAATCATCA TTAATGACTT TATGTATTAT 60
TTGCACAGGG AGAATTGAAA CTGAGTATAA TCAATAAGCT AGATACGAAA TCAGTTTCTC 120
AAACTGAGCT TCAGAAAGGG GCATTTTGTA CTCTTGTTT TGCATAACTG GTTTTGTTTT 180
TTTGAGAAT TAACTATAAC ANTCACTGGC TACCGAAGTA AACTGATGTA CTGAATTCCA 240
TAATACATAA CATTCAATT TTACCACTNC TGTTAGCGA ACTTGATAC TTATTCCTG 300
TTCAGNTTAA AAAAAGAAA 319

40 SEQ ID NO:2128

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS02433

SEQUENCE DESCRIPTION:

50 GATCACACCT GAAAGCAGTG GTCCCAGCTC TGTGCTGTGG GACATCACAG GTCCTAAACA 60
GTGATAGAGA AAGGGCTGGG GAGTGGCAGC TGGAACTCTT GCTTCCGTCT GAACATCTGG 120
ACACACATGT CAGAGAATCT TTGCATTAAA TGGACTGCCC AATCTATTG GTGATTAAT 180
GGCTGTGCGG TGAGGGGAGA ACCCTGGGCA GTCTGGAGAC TGAGGTGCCA TTCTCGGCTA 240

GAGACACCAC CCAAAGAAGA GATGGGCTGG CTAATAAAGA CAAGTNTCAG TTGAATAAAAT 300
GTCTTTAAAC CTAAG 315

5 SEQ ID NO:2129
SEQUENCE LENGTH:311
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS02434
SEQUENCE DESCRIPTION:
GATCATTGTC CCTACAGACA CCCAGAACAT CTTCTTCATG AGCAAAGTCA CCAATCCCAA 60
GCAAGCCTAG AGCTTGCCAT CAAGCAGTGG GGCTCTCAGT AAGGAACTTG GAATGCAAGC 120
TGGATGCCCTG GGTCTCTGGG CACAGCCTGG CCCCTGTGCA CCGAGTGGCC ATGGCATGTN 180
15 TGGCCCTGTC TGCTTATCCT TGGAAAGTGA CAGCGATTCC CTGTGTAGCT CTCACATGCA 240
CAGGGGCCCA TGGACTCTTC AGTCTGGAGG GTCCTGGGNC TNCTGACAGN AATAAATAAT 300
TTCGTTGGAA A 311

20 SEQ ID NO:2130
SEQUENCE LENGTH:309
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02435
25 SEQUENCE DESCRIPTION:
GATCCCAACT GCTCCTGCGC CGCCGGTGAC TCCTGCAAAT GCAAAGAGTG CAAATGCACC 60
TCCTGCAAGA AAAGCTGCTG CTCCTGCTGC CCTGTGGGTT GTGCCAAGTG TGCCAGGGC 120
TGCACTCTGCA AAGGGGCGTC GGACAAGTGC AGCTGCTGCG CCTGATGCTG GGACAGCCCG 180
CTCCAGATG TAAAGAACGC GACTTCCACA AACCTGGATT TTTTATGTAC AACCTGACC 240
30 GTGACCTTTT GCTATATTCC TTTTCTATG AAATAATGTG AATGATAATA AACAGCTTT 300
GACTTGAAA 309

35 SEQ ID NO:2131
SEQUENCE LENGTH:307
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02436
40 SEQUENCE DESCRIPTION:
GATCCTGGCC TCGCAGTTCC TATCCNTGA CCCAGAACAG CTCACCAAGG AGCTGCAGCA 60
GCATGTGAAG TCAGTGCAGC CCATACAAGT CCCAAANAAG ATAGAGTTTG TTTTGAACCT 120
GCCAAAGCTG TCACAGGGAA ATTCAACAGA CCAAACCTCG NGNCAAGGAG TGGAAAGATGT 180
CCGGAAGAGC CCGTNCAGT GAGNCGCTA GGAGCATTCA TTTGGATTCC CTCTTCTTTC 240
45 TCTTTCTTTT CCCTTTGGGC CTTGGCTTAC TATNATGATA TGAGTCCTTT ATGAAGACAT 300
GATGAAA 307

50 SEQ ID NO:2132
SEQUENCE LENGTH:306
SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS02437

SEQUENCE DESCRIPTION:

5 GATCCTGGTG GCGACCATGG AGAGGAACT GGAGGGCAGG GATGGAGCTG AAANCTTGGC 60
 GGCCAGAGA GAGGTCCACC CCAAGCAGCC TGAGCCCTCA GCCACCCCCC AGCTCCCTGG 120
 CAGTCCCCCT CCACCTGCCA ATGTCAGCGC CACTGCTGTG TCTGAAAGGA ATAAGGAGAA 180
 CAGGACAGAC TAACTTTTTA AATGATATGA AGAAATCAGA GGTGAAAATT GTACATTGGG 240
 10 AATATATTTA TGCAAATTTT ATTGAAATTT ATTGTAAATA AAGATTTTCT CAGTGGTCTA 300
 GANAAA 306

SEQ ID NO:2133

SEQUENCE LENGTH:306

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02438

SEQUENCE DESCRIPTION:

20 GATCTGGGCT GGTCCCTTTC CCATAAAATN AGGTCCCTGG TTGTATGTTC CCATAGCACC 60
 CCATACTTCC TCTCTNAGAA TAATCATTTT CCTTGTAATG CTCAGCATCC GCATCCTGCT 120
 TGA CTGCAAA CTGTCTGAAG GTAGGGACTG TTTGTCTTGG ACTTCGCTGC CAGTCCTTAG 180
 AACAGTGTCT GGGACACAGT GTGTTCTCAA ATATTTGTTG CTGGAATAAA TGAATGACCT 240
 25 AAATCAGTCT TTTAGGGATT TACTGTAAAC CACCATGGGA AAATTAAATA AATGCGGGGA 300
 AGGAAA 306

SEQ ID NO:2134

SEQUENCE LENGTH:305

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02439

SEQUENCE DESCRIPTION:

35 GATCTGACCC CACAGCCTTT GGCCTGCTCA CCGGACCAGC CTGGGCCGCA TTCCCTGCAG 60
 GACCTCCCGG GTCAGGCAGG GCGGCCCCCT GCTCCACACA CTGCTGCATC TTGGGTCTCA 120
 GGGACCCAGA CAGATGGACT TACATGGAGC TGGGCACTGC CCTGCCTCAA CAGGGTCCAT 180
 TGCCTCCTCG CCTCCAGAAC TTGGAGCAGG GAAGTGGGCA CCCTGAGGCC TCCAGCACCA 240
 GTTCCGTCAT TCTCGTTCCT GGGGAACCCC CACTCTGACC TGTATTATAA GTTCACATTT 300
 40 TGAAA 305

SEQ ID NO:2135

SEQUENCE LENGTH:251

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02441

SEQUENCE DESCRIPTION:

50 GATCAACCTG AGAAAAATTG CTGAGCTCAT GCCAGGAGCA TCAGGGGCTG AAGTGAAGGG 60
 CGTGTGCACA GAAGCTGGCA TGTATGCCCT GCGAGAACGG CGNGTCCATG TCACTCAGGA 120
 GGACTTTGAG ATGGCAGTAG CCANGGTCAT GCAGAAGGNC AGTGAGAAAA ACATGTCCAT 180

EP 0 679 716 A1

CAAGCANTTA TGGANGTGAG TGGACAGCCT TTGTGTGTAT CTCTCCAATA CAGCTCTGTG 240
GGCCAAGTAA A 251

5 SEQ ID NO:2136
SEQUENCE LENGTH:301
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS02442
SEQUENCE DESCRIPTION:
GATCTGCATC CCCAAAAGTA TCACTCCTTC TCGAATCCTT CAGAACATCA AGGTGTTTGA 60
CTTCACCTTT AGCCCAGAAG AGATGAAGCA GCTAAATGCC CTGAACAAAA ATTGGAGATA 120
TATTGTGCCT ATGCTTACGG TGGATGGGAA GAGAGTCCCA AGGGATGCAG GGCATCCTCT 180
15 GTACCCCTTT AATGACCCGT ACTGAGACCA CAGCTTCTTG GCCTCCCTTC CAGCTCTGCA 240
GCTAATGAGG TCCTGCCACA ACGGAAAGAG GNAGTTAATA ANNGCCATTG GANGCATNAA 300
A 301

20 SEQ ID NO:2137
SEQUENCE LENGTH:302
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02443
25 SEQUENCE DESCRIPTION:
GATCCGAGAG GGCATGGCCG CCCTGCAGTC TGACCCCTGG CAGCAAGAGC TCTACCGCAA 60
CTTCAAAAGC ATCTCCAAGG CCTTGGTGGA GCGGGGTGGT GTGGTCACCA GCAACCCACT 120
TGGCTTCTGA ATACTCCCGG CCAGGGCCTG TCCCAGTTAT GTGCCCTCCC TCAAGCCAAA 180
30 GCCGAAGCCC CTTTCCTTAA GGCCTTGTT TGTCCCGAAG GGCCCTAGTG TTCCAGCAC 240
TGTGCTGCT CTCAAGAGCA CTTACTGCCT CGNAAATAAT AAAAATTCT AGCCAGGTCA 300
AA 302

35 SEQ ID NO:2138
SEQUENCE LENGTH:297
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02444
40 SEQUENCE DESCRIPTION:
GATCATCCAG AAGGAGCCCG TTGAAGTGGC CCCAAGCCAG CTCTCTGCAT TTCGTACTCT 60
CCTGTTTTCT GCACTTGGTG AAGAGGAGAA GATGATGGTG AACAACTATC GCCCACTTCA 120
ACCCTTGATG AACCGGAAGG TCTGGGCGTC CTTCCAGGCC ACTAATGAGG GCACAAGGTC 180
CTAGAGACAT TAGGTCCACA TGAATAGCAG AACTGACTTT GAAGGAAGGA AGCGTTGTTT 240
45 CCCAAGTTTC ACAATGTGAT TGTACATGAC TTCTGAAATT AAAAAGAGAG CATGAAA 297

50 SEQ ID NO:2139
SEQUENCE LENGTH:295
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

55

CLONE:HUMGS02445

SEQUENCE DESCRIPTION:

5 GATCTATGCC AGCAAAACAT CATTTTGAGA CAAACATTTT TGTGGCAGAT GTTTTCCTA 60
 AAAAGTACTA TATCATCCAA GAAATATTTG AGTAAATCC CTTGTTCTTT TGGGTGACAT 120
 TAACTGACAT TTGCTTTTTT TCAAGACCTA ATAGAAAATA AGAAAGCCCA TAATGTATTT 180
 AGAAACAGGA ATCCTCAGAG CAATTCTCTG TATTCTCATA TAATTTCAAT GTAAACAGA 240
 AAACATATTG ATGTGTTGGT GATAGGCTTG AATTATTA AAATTCAAAA ACAA 295

10 SEQ ID NO:2140

SEQUENCE LENGTH:294

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS02446

SEQUENCE DESCRIPTION:

20 GATCGAGGCT GCAGGATATG CTCAGACTCT AGAGGCGTGG ACCAAGGGGC ATGGAGCTTC 60
 ACTCCTTGCT GGCCAGGGAG TTGGGGACTC AGAGGGACCA CTGGGGCCA GCCAGACTGG 120
 CCTCAATGGC GGA CTGACTG ACATTGACTG ACGGGGACCA GGGCTTGT TT GGGTCGAGAG 180
 CGCCCTCATG GTGCTGGTNC TGTGTGTGT AGGTCCCCTG GGGACACAAG CAGGCGCCAA 240
 TGGTATCTGG GCGGANTCAC AGAGTTCTTG GAATAAAGC AACCTCAGAN CAAA 294

25 SEQ ID NO:2141

SEQUENCE LENGTH:292

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02447

SEQUENCE DESCRIPTION:

30 GATCTGGTTG GTGGATGAAC AAGTGTACAG CTGGACATCT CAATGGNGTT TATTACCAAG 60
 GTGGCACTTA CTCANANGCA TCTACTCCTA ATGGTTATGA TAATGGCATT ATTTGGGCCA 120
 CTTGGANAAC CCGGTGGTAT TCCATGAAGA ANCCACTATG AAGATAATCC CATCAACAGA 180
 CTCACAATTG GAGATGACAG CAACACCACC TGGGGGGAGC ANACAGGTGG AGACGTTAA 240
 35 NGCCGTTTAN TGNGTTTTCT NTTAAAGNC TTTATCTGAC CNGGGGTANN GN 292

40 SEQ ID NO:2142

SEQUENCE LENGTH:280

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02448

SEQUENCE DESCRIPTION:

45 GATCGGAAAA AAATTCCTGA ACGCAAAGCC AAGTCTCGAC AAGTTGGAAA AGAGAAAGGC 60
 AAATATAAAG AAGAACTTAT TGAGAAAATG CAGGAATAAA TAGAACCTGT TGTGCAACCA 120
 CGGTTTAACC GGAGATTTTG AGGCTAGGGT GTGTTTCTTT CGAACTTTTC GGAATGTCTG 180
 GAACATTTC A TTTCTGTTT TGTACCTGT GCCTCTGTAA ATCTACTTTT GCAATTTTAA 240
 GTAATAATTT TATGAATAAN AATGGGAAAT GCTTCCTAAA 280

50 SEQ ID NO:2143

SEQUENCE LENGTH:280

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02449

SEQUENCE DESCRIPTION:

GATCCCATAA CAGGCTACCC CTTGGCCTCA TGCTGGAGTT GTGTGTGTCT GTCTTCATCC 60
 CAGGCTGAGC TCCTTGAGGT GAGGATGTTG TGCTGTTTGC CTCCCTCACA GTGCCTTGGT 120
 CTTAGTGGAT GCCCAGTTGT CTTGTGAATG ACTTTTAAGA AGTGACTTA AGAGAAAAAT 180
 CCTACNTAT NNNNGTAAT TACAAGTCAT GTTTTGTNG CTTAAAGGTG ATAAATCAGT 240
 GTATATNATN NGNTAATGTC CATTAAAGCC AGTTTTTAAA 280

SEQ ID NO:2144

SEQUENCE LENGTH:278

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02450

SEQUENCE DESCRIPTION:

GATCCTAGAG CCTGACGTTT AGTGAACCCA TGTTCCTGGG TGGGTGAAAG GGGCCCAACC 60
 CTGCCCCACTT CAGCCCAGCC CGCCCAAGGG GACTTGTGCC AGCAGAACAT GTNGGAGGAA 120
 GAAGCCCCGT TTCCAGGGCA TCCGCAGCCC AGGGTAGGGA GAAATATTCT CTCCACTTTG 180
 GGGGAGAGTT CTGCTCTCG ACCTAGTGGT TTCTACTCTC ACCGACTTAT TCTGATTTC 240
 GAAATAAAAT GAAATGTCTT ATTTTTGGGA AAGTAAA 278

SEQ ID NO:2145

SEQUENCE LENGTH:315

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02452

SEQUENCE DESCRIPTION:

GATCCCACTG GGGCCTNTGG GAAGGNGACA GACTTATNAC TAGATGATTC GCTGGTGTCC 60
 ATCTTTGGGA ATCGACGTCT CAAAAGGTTA TCCATGGTGG TACAGGATGG CATAGTGAAG 120
 GCCCTGAATG TGAACACAGA TGGCACAGGC CTCACCTGCA GCCTGGCACC CAATATCATC 180
 TCACAGNTCT GAGGCCCTGG GCCAGATTAC TTCCTCCACC NNTCCNTATC TNACCTGCCC 240
 AGCCCTGTGC TGGGGCCCTG CAATTGGAAT GTTGGCCAGA TTTCTGCAAT AAACACTTGT 300
 GGTTTGCGGG TCAAA 315

SEQ ID NO:2146

SEQUENCE LENGTH:275

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02453

SEQUENCE DESCRIPTION:

GATCCCAGGA CCATTTGGCT AGTGTGCCTA GGTGACCACA TGATTGCTGT TTTACCAGGA 60
 ATGCAGCATC CCATTGACAA AACAAGTGCT CTGAGAAGGT TAAAAATACT ACAGNGAATA 120
 TGGGANCACA GNCCTTGAAA TTAGCTGAG TTGTAACAGC TGAAACTCCA AGAGGTGTCT 180

TCCTTGTTTN GAGGTGNACT AGTGTGCTT CCAGAGGGCA GCTTGAAACC CGTAAAGCCT 240
GTTTTGGGGA ATCCTTTTTT GNCITGCTTT GNTTN 275

5 SEQ ID NO:2147
SEQUENCE LENGTH:274
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02454

10 SEQUENCE DESCRIPTION:
GATCATCAAT GATTTATTGG CACGTTCTAT TGGGATGGTC GAAGTTAATA CAGTAGACAA 60
ATACCAAGAT AAGGGACAAA AGTATTGTCC TAGTATCTTT TGTTAGAAGT AATAAGGATG 120
GAACTGTTGG TGAACCTTG AAAGATTGGC GACGTCTTAA TGTTGCTATA ACCAGAGCCA 180
15 AACATAAACT GATTCTTCTG GGGTGTGTGC CCTCACTAAA TTGCTATCCT CCTTTGGAGA 240
AGCTGCTTAA TCATTTAAAC TCAGAAAAAT TAAA 274

20 SEQ ID NO:2148
SEQUENCE LENGTH:266
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02455

25 SEQUENCE DESCRIPTION:
GATCGCAGAG AAGGCAGCTG ACATTATCAA GGGGCAGCCT GCACTCTGGG ACAAAGATGT 60
CCCTGTCTAC AAGCCCAGGA CGCTGGCCAC CCAGCGCTAA GACAGTTGCT GCTGGAGGAT 120
GACCAGGGAA GCCCCCTGAT AAGCCAAGAG GGCCAGCACA GCCCTTGCTC CCAGGCTCCT 180
GCCTGAAACT ATCTAGCACA CTAGGACCCA GGTGGTACCC TACTCAGTGG CTGAGAATTG 240
30 GATAAAGTCT TGGGAAATGA GACAAA 266

35 SEQ ID NO:2149
SEQUENCE LENGTH:265
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02456

40 SEQUENCE DESCRIPTION:
GATCTTTAAC AAATGTTTTA AGCAATTTTA AAAAGGCAGG ATGTTATTGA CATTATACAC 60
TGAAGTCCTA ACATTTTAAC ATTTATAGTG CITATTTGCA AAATTGTATA ATTAGGAATT 120
ATTCAGAGA CAATGTTTTT TTTTCAGGT GAGTAGTTGC CGCGTAATAT CATTGGAGTA 180
CATTCTTTAT ACTGTTTGTG AAATTAATAC TAGCATATTA AGTGACAAA TAGATTAGA 240
AAACAATAAA AAATTGCATG CTAAA 265

45 SEQ ID NO:2150
SEQUENCE LENGTH:264
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02457
50 SEQUENCE DESCRIPTION:

GATCCTAGTG TTTTAATTAC CTGTGTGCAG CTATTTTAAA TAGCATTTTA CTTGAATAAT 60
 ATGTATGTTG TCATTGTTTC ATGCTATACT TTGTGGGATA AAAC TTGGGA ATGAGTGTGG 120
 TAAGAAATTT ATAAAGTTT GCTTTTAAAA CGTGGACATA ACTCATTITT CTAGTTTTTG 180
 ACAATTGTGT GTTTTAGTGT CTAGTCTGCA GAGAGCTGTG TGATTAATAA ACGTGGAATT 240
 AACAGAATTT CCTCTCCCTG TAAA 264

SEQ ID NO:2151

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02458

SEQUENCE DESCRIPTION:

GATCCTGGGC TCATAGGCAG TCCCTTTTAC TTCCTTGTCT TGCTCCCTGC TATGCTGGAG 60
 ATGAATGTGA CTAAGAGGC CATCTTGCTG GCTTAATGTG TGGCTGGAGA GACCAGCCTG 120
 GAGACAATGT GGCAAAATGG GGCCTTCAT CCAGTCTGTC TAAGCCCTGT CGACTTGGGG 180
 AGGTGATTTT TTTCTGTT CTATATGTNA AGCAAAATAA ATGTTTTAAA ATTAAGCA 240
 NNAAGCAGA ATGTGAGTN 259

SEQ ID NO:2152

SEQUENCE LENGTH:255

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02459

SEQUENCE DESCRIPTION:

GATCAAAGCT GGACTGGAAA TTGTATCGTG TAATTATTTT TGTGTTCTTA ATGTTATTTG 60
 GTACTCAAGT TGTAATAAC GTCTACTACT GTTTATNCCA GTGCTACTA CCTCAGGTGT 120
 CCTATAGATT TTCCTTCTAC CAAAGTTTAC TTTCACANTG AAATTATATT TGCTGTGTGA 180
 CTATGATTC TAAGATTCC AGGGCTTAAG GGCTAACTC TATTAGCACC TTAGTGTGA 240
 AGCAAAATGTT ACAA 255

SEQ ID NO:2153

SEQUENCE LENGTH:248

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02461

SEQUENCE DESCRIPTION:

GATCTGTGCA GCAAAGCACC ATGGTACATG TNNTACCTAT GTAACAAACC TGCACATCCT 60
 GCACATGTAC CCTGGAAC TT AATAAAAGTT GGAAATTTT AAAAAGAATG AATAAGACCT 120
 GGTATTTGAT AGCACAACAG GGAGACTATA GTCAACAGCA ATTTAATTGT ATATTTAAT 180
 ATGACTAAAA GAGTATAATG GNTTGTGTTGT AACACAANTA AATGCTTGAG GGGATGNCA 240
 CCCCNA 248

SEQ ID NO:2154

SEQUENCE LENGTH:245

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02462

SEQUENCE DESCRIPTION:

GATCTTAAGC TTGATAAGA GCTGTCCTGT GGCTGAGTAT GGTGTGTATG TNAAGGTGCT 60
 TCCATCCAGG CTGGGTTTCAG AAGCCATAGC TGNGACTAAT GCAAGCTGGC CGAAGCCTTG 120
 CTGAAAGAAG CTTTAGCTGG AGAGGCAAAG TGGCGGGAGT GGCAGGAGTG GATNNGATAA 180
 GATGTGGTTT AAGTNATGGG TNCAGCCTGA TTCTGAGCAA TAATAAAGAN TTTCTTTTGC 240
 CCAAA 245

SEQ ID NO:2155

SEQUENCE LENGTH:244

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02463

SEQUENCE DESCRIPTION:

GATCCAGGAA GCTCCCAAAC CAGAGTGTGA GAAGGCACTT CTTGCCTTTC AGGAGAGTAA 60
 GAACCTCTGC GAANCATGGA GAACTTTATG CAACAATTAA AGGAAAGTGG CATGACAATG 120
 GAGGAGCTAA AATATTCTCT GGAGCTGAAG AAAGCTGAGT TGAAGGCAA ATTGTTGTAA 180
 CACTACAGCT GAGCAGATGT AATAGAAATA AACCTATGAA TAAATTTNCT TCTTGGTTCT 240
 GAAA 244

SEQ ID NO:2156

SEQUENCE LENGTH:237

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02464

SEQUENCE DESCRIPTION:

GATCCTATAT CTTGGTNAAT ATGCTCCCAG ATACTTTAAA CATGGCAACC TTTTGGCCTA 60
 AGAGAATGTT TGTTTCATGGA AAAAAGCTTT TGAGATGAGA GGGTGTCTTA CTTTCTTGTG 120
 GCAATTGATT TTCTGTTTAA ACACCCTTTG GGTAAATCT TGCAAAGAGC TTTTATAATT 180
 NGTTTACTG AATTGTATGG AGATTGTATA CCAAGTAAAG CTCTTTTAAA TTACAAA 237

SEQ ID NO:2157

SEQUENCE LENGTH:234

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02465

SEQUENCE DESCRIPTION:

GATCCACGCT GGGCCGAGGA TGGGACGTTT TTCTTCTTGG GCCCAGGTCCA CAGGTCCANT 60
 GACACCCTCC CTCCAGGGTC CTCTCTTCCA CAGTGGCGGG CCCACTCAGC CCCGAGACCA 120
 CCCAACCTCA CCCTCCTGAC CCCCATGTAA ATATTGTTCT GCTGTCTGGG ACTCCTGTCT 180
 AGGTGCCCCCT GATGATGGGA TGCNCTTTAA ATAATAAAGA TGTTTTTGAT TAAA 234

SEQ ID NO:2158

SEQUENCE LENGTH:233

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02466

SEQUENCE DESCRIPTION:

GATCCCTAAG CTGTAGAACA TTTTAACGTT GATGCCACAA CGCAGATTGA TGCCTTGTAG 60
 ATGGAGCTTG CAGATGGAGC CCCGTGACCT CTCACCTACC CACCTGTTG CCTGCCTTCT 120
 TGTGCGTTTC TCGGAGAAGT TCTTAGCCTG ATGAAATAAC TTGGGGCGTT GAAGAGCTGT 180
 TTAATTTTAA ATGCCTTAGA CTGGGGATAT ATTAGAGGAA GCAGATTGTC AAA 233

SEQ ID NO:2159

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02467

SEQUENCE DESCRIPTION:

GATCTGTGCA CACTTTCTAA ACAGCTTGTN ATGCAAGTNT GAGCCTATTG TGTTACTTGA 60
 CCTTATTTTG GAAGTTTGA ATTGGCCTAG GAGGAAACCC AGAAATGAAC CAGGGGTATG 120
 TNATCACTTT TTTNATATCA AGTCCTCACC CTCCTNCCAC ATAATGCTCT ATCCGGCTAA 180
 GGTTGGAAC CTGAAGTTGG AGAAGGTGGA ATAAAGTTAC ACCTGGAAA 229

SEQ ID NO:2160

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02468

SEQUENCE DESCRIPTION:

GATCCCTGCG AATTACGAAA ACTACTACAT CCATGATTGC CCCAACCCCC TTGGGGTGGG 60
 GCAGAAGTG AAGCATCCCA ACTGACTAGA GACTCAGGCC CTGCAGGNCC TTATAGAACC 120
 TGTGGCCATC CCTGAGCACC CTGCCACCAG GTGACCTCGG CCATACTCAC TGCCCCCCTT 180
 GGGCACCCAC TCACCNTAGA ATAACTTAA CAGTGTCCCG TGGTAAA 227

SEQ ID NO:2161

SEQUENCE LENGTH:226

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02469

SEQUENCE DESCRIPTION:

GATCTTACGA TGCCCTCTGT ACTGACCTGA AGGAGACCTA AGAGTCCTTT CCCTTTTGA 60
 GTTTGAATCA TAGCCTTGAT GTGGTCTCTT GTTTTATGTC CTTGTTCTTA ATGTAAAAGT 120
 GCTTAACTGC TTCTTGGTTG TATTGGGTAG CATTGGGATA AGATTTTAA TGGGTATTCT 180
 TGAATTGCTT TTACAATAAA CCAATTTTAT AATCTTTAAA TTTAAA 226

SEQ ID NO:2162

SEQUENCE LENGTH:224

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02471

SEQUENCE DESCRIPTION:

5 GATCTGCCTT GCTCACTATT TGCCTATTGG CATATATGAT TACTTTGCTA AAAGACATTT 60
 TGGCCAAGAC AAGCCCATNT CCAGAGCTCT AAGAATGCCT AACTACAAGA AAAAGGCCAC 120
 CTAGGCAATG GAAGCCCTCA AAGAAGTCGG AATGTCATAG TCTTGAAATG AAAGGGAAAC 180
 TGGGAAACTG GGTTCCTCAT TAAAGTTGTT TCCCACTCTN TAAA 224

10

SEQ ID NO:2163

SEQUENCE LENGTH:221

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS02472

SEQUENCE DESCRIPTION:

20 GATCTAATTT GATAACAAC ATGGCTTGTG TGAAACTGA GCAGGTGTTT GTTTACCCAT 60
 AGTGTCTGT GTAGTTATTG CTTANTCTGC AGAAAATAAT GACTTAGATG AGATGTCTGA 120
 CTTGCTTCA CTTATTAAC ATGTTACCA TGGGATGATG TCTGTAACAT CAGATATTGT 180
 TCAACTAGAC TAGGATTAA TAAAAATTGT GAAAGCTAA A 221

SEQ ID NO:2164

SEQUENCE LENGTH:210

25

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02473

SEQUENCE DESCRIPTION:

30 GATCTTAATT TACAGTTCCA TGGGATTAAA ACAAGTTTGC ATTTATGTAA TTTGCATTAC 60
 TTTAAAAATT ACAACAACAT AATCTCTGAA ACTTACTTCA ATCAATTCAC ATCCCTACAA 120
 CTGTTAAGAT TTATTTTGTG ATTAGNATCT TATAGTGGGT ATTCTTTTNA GTGCTGATAT 180
 TTCTATTCAT TAAATCCTG TGNACACAAA 210

35

SEQ ID NO:2165

SEQUENCE LENGTH:209

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS02474

SEQUENCE DESCRIPTION:

45 GATCCTGCAT TAAATTTTAA TTTGTGAAAA TTTGAAAATT ATGAGCTATA ACTTATAAAG 60
 TTTGCCTTCT TATGNCTAAA ATCTTTTAAA GGATTATTTG CATTTATGTA AAAGTGGAAA 120
 TGAAGTTATA TATGAGTGCA AAGAAATTGA CTTCTGCTCA AATATGTGTT GATACCCTAC 180
 AGTAAATTGA ATTAATTTT TATCCCAAA 209

SEQ ID NO:2166

SEQUENCE LENGTH:203

50

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

55

CLONE:HUMGS02475

SEQUENCE DESCRIPTION:

5 GATCAGTCAA TTTTCCGTCG TCCGTAACCA GCGGGCCCCT GGTCAAGTNC TGGCTCTGCT 60
 GTCTTGCCT TCCATTTCCT CTCTGCACCC AGAACAGTGG TGGCAACATT CATTGCCAAG 120
 GGCCCAAAGA AAGAGCTACC TGGACCTTTT GTTTCTGTT TGACAACATG TTTAATAAAT 180
 AAAAATGTCT TGATATCAGT AAA 203

SEQ ID NO:2167

SEQUENCE LENGTH:200

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02476

SEQUENCE DESCRIPTION:

15 GATCTGGACT TCGAAACTTT CCTCATGGAT TCTGAATAAA AGAAACACTC TACACCTCTT 60
 AAATCAAGGT CATGTAGATA ATGACTTTGT TATAAATGCT ACAGCTGTGA GAGCTTGTTC 120
 CTGATTTCAT TGTCGCTTC TGAATTCTG AAAAACTTTA AACTGGTAGA ACTTGGGAATA 180
 AATAATTNGT TTTAATTAAA 200

SEQ ID NO:2168

SEQUENCE LENGTH:200

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02477

SEQUENCE DESCRIPTION:

25 GATCTTAAGT GTCTCCTTGC TCTGGTAAAA GATAGATTG TAGCTCACTT GATGATGGTG 60
 CTGGTGAATT GCTCTGCTCT GTCTGAGATT TTTAAAAATC AGCTTAATGA GAGTAATCTG 120
 30 CAGACAATTG ATAATAACAT TTTGAAAATT GGAAAGATGG TATACTGTTT TTAGAGGAAT 180
 AAACGTATTT GTGGTTTAAA 200

SEQ ID NO:2169

SEQUENCE LENGTH:197

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02478

SEQUENCE DESCRIPTION:

40 GATCCAAATC CCAGCTCTAC TGCTCGTCC GAATTAGCCT TGGGAAAATC ATTTATATGC 60
 TAAATAATTT ACCTTTTAT CTAGGAGATG AAAAGAGGAT AATGTTTCCT TCCATAAAGA 120
 AAGTTCTTGT AAGAATCAAA AGAAATGGTG AGCTTTAAGT GGTITGTAAA CCATAAAACA 180
 CATCATAAAA GTTCAAA 197

SEQ ID NO:2170

SEQUENCE LENGTH:201

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02479

SEQUENCE DESCRIPTION:

GATCCATGNC ATCTCTCTCT TGCCTGAGGG GAAAGAGAGA TGGGCCAGGC AGAGAACAGA 60
 ACTGGAGGCA GTCCATCTAG GGAANNNNAC TGTGAGGCCA TACTTGTGAA ACGTCTGGAC 120
 TGCTATTCTA GAGCTTTTAT TTGNGTGTGT TCGTTGCACA NCTTGTTTTA AATGTTTAAT 180
 AAAAGCTTTA TAAACTTTAA A 201

SEQ ID NO:2171

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02480

SEQUENCE DESCRIPTION:

GATCCCCCAA GTACAGGCGC TAATTNTTGT GATAATTTGT AATNGTGACT TGTACTCCCC 60
 GGCTGGCAGC GTAGTGGGGC TGCCAGGCCC CAGCTTTGTT CCCTGGTCCC CCTGAAGCCT 120
 GCAAACGTTG TCATTGGCAG GGAAGGGTGG GGGGCAGCTG CGGTGGGGNG CTATAAAANT 180
 GACAATTAAA CGNGACANTN GTNTTTTATT TCCTNAAA 218

SEQ ID NO:2172

SEQUENCE LENGTH:195

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02481

SEQUENCE DESCRIPTION:

GATCCTTGCA GGGAGCTTGG AACCTTAGTG CACCTACTTC AGTTCAGAAC ACTTAGCACC 60
 CCACTGACTC CACTGACAAT TGAATAAAG ATGCAGGTGC TCGTATCTCG ACATTCATTC 120
 CCACCCCNCT CTTATTTAAA TAGCTACCAA AGTACTTCTT TTTTAATAAA AAAATAAAGA 180
 TTTTATTAG GTAAA 195

SEQ ID NO:2173

SEQUENCE LENGTH:194

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02482

SEQUENCE DESCRIPTION:

GATCCGGCAA CATCAACCCG AGTCATTCTG TCTGTGGAGG GACAAGTGA CTCAGGGCAG 60
 CGCAGGCTGA CCACAGCACA GCCAACACGC ACCTGCCTCA GGACTGCGAC GAAACCGGTG 120
 GGGCTGGTTC TGTAATTGTG TGTGATGTGA AGCCAATTCA GACAGGCAAA TAAAAGTGAC 180
 CTTTACACT GAAA 194

SEQ ID NO:2174

SEQUENCE LENGTH:192

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02483

SEQUENCE DESCRIPTION:

GATCAAAATGG AAAGGAGAGG AAAGAACTCA GTGCTGCCTA TTAGTAGTTA ATTCTGTCAC 60
TCACCACTAC ATCACTTGAG ACAAATCTAT GCCACTCAGA ATCTCCTTCT TTCCTGGACT 120
TAACTCTAAT TCTAGAGTCT CTGTTACTGC TTGGGCTATA CCTGGGCATA CTAATAAAGT 180
ATGGTATTGA AA 192

SEQ ID NO:2175
SEQUENCE LENGTH:192
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02484

SEQUENCE DESCRIPTION:
GATCAGAACT GTTACCAAAA AACAACTGTC AGTTTTATTG AGATGGGAAA AATGTAAACT 60
CGANNNTTAT TACTTAAGAC TTTATGGGAG AGATTAGACA CTGGAGGTTT TTAACAGAAC 120
GTGTATTAT TAATGTTCAA AACACTGGAA TTACAAATGA GAAGAGTCTA CAATAAATTA 180
AGATTTTGA AA 192

SEQ ID NO:2176
SEQUENCE LENGTH:187
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02486

SEQUENCE DESCRIPTION:
GATCGTCTTG GAAGGGAGTG GTTTCAGAG ACATTCAGA AAGTGAAGGA GAAACTCAAG 60
ATTGACTCAT GAGGACCTGA AGGGTGACAT CCCAGGAGGG GCCTCTGAAA TTCCACAC 120
CCCAGCGCCT GTNCTGAGGA CTCCTCCAT GTGCCCCAG GTGCCACCA TAAAAATCCT 180
ACAGAAA 187

SEQ ID NO:2177
SEQUENCE LENGTH:187
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02487

SEQUENCE DESCRIPTION:
GATCATTGAA ATGCTGAAAA TTTTAACAGT CTTCTAAAA GTATTGAGGG GGCAAAAATT 60
ACCAATTATG GTATACAAAA ATAAGCCTAT AAATGTNTT CACATTGCTA ACTTGAGTTT 120
CAGTTGATTC AGTTTGTAAT AACTAGTAAT GAGCTTCTGT TTACAATAA AATNCTGTAA 180
ATTGAAA 187

SEQ ID NO:2178
SEQUENCE LENGTH:186
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02488

SEQUENCE DESCRIPTION:
GATCAGTTGC TTATAGATAA TGTTCATGA CCTCAAGACA TATATTTTG AGAAATTATC 60

ATTTTAAAAA ATTTGGTCTA TACTGATTGT TTTCAGTGAT TCCAATATTA TTACTTATAA 120
 CACTGACCTC TGGAAAATAT TTTGTNCACA AGAAATAATA AAGTATAATG ATTTGTNGCA 180
 NNNAAA 186

SEQ ID NO:2179

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02489

SEQUENCE DESCRIPTION:

GATCCACAAG GCCTGAGGAG CAGTGTGGGG GGACAGACAG GAGGTGGATT TGGAGACCGA 60
 AGACTGGGAT GCCTGTCTTG AGTAGACTTG GACCCAAAAA ATCATCTCAC CTTGAGCCCA 120
 CCCCCACCNC NTTGTCTAAT CTGTAGAAGC TAATAAATAA TCATCCNTNC TTGCCTAAA 179

SEQ ID NO:2180

SEQUENCE LENGTH:179

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02490

SEQUENCE DESCRIPTION:

GATCCAATGG AGCCTGGNGA GGTGTGCCCA GAAAGCTTGT CTGTAGCGGG TTTTNTGAGA 60
 GTNAACACTT TCCACTTTTT GACACCTTAT CCTGATGTAT GGTTCAGGA TTTGGATTTT 120
 AATTTTCCAA ATGTAGCTTG AAATTCAAT AAACCTTGCT CTGTTTTTCT AAAAATAAA 179

SEQ ID NO:2181

SEQUENCE LENGTH:177

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02491

SEQUENCE DESCRIPTION:

GATCTGTCCA CTCCTGGTCA TTGGTGGATG TTAAACCCAT ATTCCTTTCA ACTGCTGCCT 60
 GCTAGGGAAA ACTGCTCCTC ATTATCATCA CTATTATTGC TCACCACTGT ATCCCTCTA 120
 CTGGGCAAGT GCTTGTCAG TTCTAGTTGT TCAATAAATT TGTTAATAAT GCTGAAA 177

SEQ ID NO:2182

SEQUENCE LENGTH:176

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02493

SEQUENCE DESCRIPTION:

GATCAAAAAA CCACAGGGCT TTTGGGCACT GCCTCCTTGG GAAGTTAGTG GCCACAGAAG 60
 AGAGATGAAA CCTGTAAGAA GTCTGGAGTC TTTTGGAATC TCAGCCATTT CCCCAGGTTG 120
 TTACTTTCTT AGTATGTACA GTCTTCTCAG GATGAGCAGT AAAACCTTTG AACAAA 176

SEQ ID NO:2183

SEQUENCE LENGTH:175

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02494

SEQUENCE DESCRIPTION:

GATCCTAAAC TCTTAGCTT AAGTGAAAT GAAGTACAGT AGTTCCCTA CTGAACCCTA 60
CCTCTTGTGT CCTGGAACC TTCTAGAACA CTGCCTTCT ACCCTCTGGT TGGGAGATGC 120
AGCCACCACA TCCCTTCATA TCATACTGTT TTGAATAAAT TTTCAAATCC TTAAT 175

SEQ ID NO:2184

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02495

SEQUENCE DESCRIPTION:

GATCCGGAGG GCCCAGGAGA ACCGGAGCGT GCTTCAGGGT GCGGCGAGAA CAGGAGCTGC 60
TCAGCCAAGA ACTGTGGCGG CGGCTGCTGC CAGGATGCCG AAGATACCCC ACTAGCACCC 120
CTNAGGGGGT CATGTGGTCA ATAAAAGTCC TTAGCTGCTG CCTAAA 166

SEQ ID NO:2185

SEQUENCE LENGTH:164

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02496

SEQUENCE DESCRIPTION:

GATCAAAATC AAGAAATCCG GGCATCACAG AGAAGTTGGG TTAGGACAG CAGGTGCTGT 60
TCCGAGACTC AGTCTTAAAG GGTTTTTTTT CCCACTAAGC AAGGGGCCCT GACCTCGGGA 120
TGAGATAACA AATTGTAATA AAGTAAC TTC TTTTCTTC TAAA 164

SEQ ID NO:2186

SEQUENCE LENGTH:164

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02497

SEQUENCE DESCRIPTION:

GATCAGCCCC TTAATNAG TTCTAGAGCA GGTCTTCTGT TCCAGAAGGG GAGAAGCATA 60
GAGGGCCTGT GAGCTCACGT GTGTTCTTTG TCATAGGGGT GAAAACTAA CTTCAAGTGT 120
CCCTTGTTTG AAATAAATT AGCAGAGTCA CTTTCTATCT TAAA 164

SEQ ID NO:2187

SEQUENCE LENGTH:163

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02498

SEQUENCE DESCRIPTION:

GATCTAATGG TTTTATAAAT NAAAGTTCCC CTGGACAAGT TCTCTGCCT GCCACCATGT 60
AAGATGTACC TTTGCTACTC ATTCACCTTC TGTATGATG GTGAGGCCTT CCCAGCAATG 120
TGGAAGTGTG AGTCCATTAA ACCTCTTTCC TTTATAAATT AAA 163

SEQ ID NO:2188
SEQUENCE LENGTH:162
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02499

SEQUENCE DESCRIPTION:
GATCCTAACC AGGTAACCTG GTCCTNTGAA TTGAAGCTTA TCATATACCC AAAGCCTTGA 60
CTAGAAATAC CTAATAGAA TACCATGGTC ATTGGAAAAA ATAGATAGTN TTNTAAAGTA 120
TTATTNAAT AAATCCTAAA GTNTGTCTNT CTTCTCCTCA AA 162

SEQ ID NO:2189
SEQUENCE LENGTH:154
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02500

SEQUENCE DESCRIPTION:
GATCCTGGCC ATGAATGAAA AGGATAAGAA GAAAGAGAAG AAATGAAGTG ACCATCCAGC 60
CTTTCCCAAT NAGACTTCCT CTCCTCCAC CCCTCATTTC CTTTTGCAC ACATTACAGG 120
TGGTGTGTTT TGTGATAATG AAAAGCATCA GAAA 154

SEQ ID NO:2190
SEQUENCE LENGTH:154
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02501

SEQUENCE DESCRIPTION:
GATCAAAGCC AGCNACCCCC ACCCCAACAC ACTCGGTGTC CCANTCATAC TAGGGCCTGT 60
GTAAATCCCA GCCTGGCCAT ACCCTCAACC TCAGTGGGCT GGAAATNACA GTGGGCCCTA 120
TAGCAGTGGC AGAATAAACT CAGNTGTGTT CAAA 154

SEQ ID NO:2191
SEQUENCE LENGTH:153
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02502

SEQUENCE DESCRIPTION:
GATCGCCCCA CTGCAATCCA GCCTGGGAGA CATAATTCAA ATCTATTTTG GTCTTATATC 60
TTCTTATGTT TGTTTATTT CATGTGTGCC AGTTTCTCTT TTTTTCACAA CAATTTATCA 120
ATTTGTGGCA ATAAAAATNA TTTACCTTTT AAA 153

SEQ ID NO:2192

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02503

SEQUENCE DESCRIPTION:

GATCATGGTG ATTTTACTGC TGCTTGTGGC TATCGTGGTT GTTGCACTCT GGCCGACCAC 60
CAGCAGTNAC ACCTGCCAAT NACAGATGCA AGCCCAACAC CCTTTGGTA CGCAAAACCT 120
GCTCTCAATA AATCCCCCA AAGCTCTGAA A 151

SEQ ID NO:2193

SEQUENCE LENGTH:371

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02504

SEQUENCE DESCRIPTION:

GATCCCAGGA ACCTTCCTNC TCCAGGGCAG CACAGGACTC AGCCATGTNT GGACCGGCCC 60
TGCTGAGGCT ACAGTCACTC TGGAACTCT GCGCTTCATC AGGNGGCAGG ACTGTGGCGG 120
GAGGGGTCTT TGAAGATGGG TGTGGGGAGC AGTGGGTGAG GAAGTGGGAG CCAGAGGTTT 180
GACTCACTTT GCTTTATTTT TCAGGCTACA ATACAGGTCA GAGACAATGG CTTATAAAGG 240
TTTAGTGTGG TCTCAGGATG TGACAGGCAG TCCAGCCTGA CCTTTCTGCA CACTCCAGAC 300
AAACTTCCCA GACAAGCTCC TTTGTGCTC TACGTGGAGA GGGTGTGGGA AAGTTATCAC 360
ATTAAAAGGT N 371

SEQ ID NO:2194

SEQUENCE LENGTH:147

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02505

SEQUENCE DESCRIPTION:

GATCAAGAAA GAGATGGAGG AGGAGGACTG AGCCCAGAAT TCACTAGGTT CGAATCCAGA 60
NAGCAGTGTG GAAAAAAAAA ACCAAAAANC AACTGNCCAG TTGTTGATAA CCACTAAGAG 120
TCTCTATTAA AATTACTGAT GCAGAAA 147

SEQ ID NO:2195

SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02506

SEQUENCE DESCRIPTION:

GATCTGTGTC ATTNCCCATG AGGGGCCGGG GCAGGTGGCT GGGTGGGGGC ACAGGCTGGA 60
GTATTCTNAG TTCTACTGGT TCTACACTGT GAGGTGGCAA TGGGATTGTC TCAGATGCCA 120
CCCAATAAAA TGCCTGTAAC TTAAA 145

SEQ ID NO:2196

SEQUENCE LENGTH:144

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02507

5 SEQUENCE DESCRIPTION:

GATCGCTACT CTTAAGAATA TACATGTATG TATTCATAGG AACATTTTT CTCAATATTT 60
GTATGATTCG CTTACTGTTA TTGTGCTGAG TGAGCTCCTG TGTGCTTCAG AAAAAAATAA 120
ATGAGACTTT GTGTTTACGT TAAA 144

10

SEQ ID NO:2197

SEQUENCE LENGTH:143

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15

CLONE:HUMGS02508

SEQUENCE DESCRIPTION:

GATCAGCTGG AAGCTCACTA GTCATCTCCT GCCCAATCCC CAGAAACCCT GATTCAGGTC 60
TGCAGGCTCC TCGGGGCTCA CCACGGCTGE TGGCTCCGGT ACCATGTAAN NCCTAGGAAG 120
GTAAAGGNGC AGGCAACCTC AAA 143

20

SEQ ID NO:2198

SEQUENCE LENGTH:141

SEQUENCE TYPE:nucleic acid

25

TOPOLOGY:linear

CLONE:HUMGS02509

SEQUENCE DESCRIPTION:

GATCCAGTGA GATAGAATAC ATGTAAGTNT GGTTTTGTA TTTAAAAAGT GCTATACTAA 60
GGGAAAGAAAT TGAGGAATTA ACTGCATACG TTTTGGTGT GCTTTTCAA TGTGTGAAA 120
TAAAAAAAT GTTANGANAA A 141

30

SEQ ID NO:2199

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

35

TOPOLOGY:linear

CLONE:HUMGS02510

SEQUENCE DESCRIPTION:

GATCCCTTGT GGCTATGCAG ATACCTACCT CACAGAGTTG TTGTAGAAGA CTGGTGGTTT 60
GGTTCAAACC TTGTGATTAA AGAGTTTGTG AAGCATTTTA TTCTTTTGAA TAAAAGCAAC 120
ATATCNAAAA CATTAAA 137

40

SEQ ID NO:2200

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

45

TOPOLOGY:linear

CLONE:HUMGS02511

SEQUENCE DESCRIPTION:

GATCCCTGTT TAATCCAAA TTACAGTCGG ACTTGGATAC ATCATTTGTA ACATTGTAGG 60

50

55

AAAGAAAAA GTCTTGATTN TGAACACGA TTTGCATTG GGTAAATAA AGTGACCATG 120
CTTTTGTCT GTAAA 135

5 SEQ ID NO:2201
SEQUENCE LENGTH:135
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02512

10 SEQUENCE DESCRIPTION:
GATCCAGCTC AAGTGCCATC CTGCCAGTGG CCCCAGACT GTGGGGTTGG GACGCCTGGC 60
CTCTGTGTCC TAGAAGGGAC CCTCCTGTGG TCTTTGTCTT GATTTTNCCT AATAAACGGT 120
GCTATCCCCG CCAAA 135

15 SEQ ID NO:2202
SEQUENCE LENGTH:133
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS02513

SEQUENCE DESCRIPTION:
GATCACTACT GCTCTTGAG TTCCTTCTCC TAAAGCTAAG GCCAGCCTCC ATCACAAATG 60
CCCATAAAT CTGGCTCGTC TTTGATGAAC AATAAATATT TTTGAACAA AATAATAACT 120
25 GCCCTGCATT AAA 133

SEQ ID NO:2203
SEQUENCE LENGTH:138
SEQUENCE TYPE:nucleic acid
30 TOPOLOGY:linear
CLONE:HUMGS02514

SEQUENCE DESCRIPTION:
GATCCTCCCG CTGGCTTCCA GACAGACCTG GGATTTTGGC AGTCATGCCG GGTGATGGTG 60
35 TTCCTGCGGA GACCCTCAGT TGTCTATTG CTCCTAGCT TCCCTGCAAT AAAATCAAGC 120
TGCTTTTGTG GGAATAAA 138

SEQ ID NO:2204
SEQUENCE LENGTH:130
40 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02515

SEQUENCE DESCRIPTION:
45 GATCATTCA CCTGATGTTT TAAAGCATC CTAAGTACAG TAGAGTAGAA AACTNATTC 60
TTTGTTAATT GTAACTGAA TAATGCCTTT AAAAAATCAA AATAAATA ACAAATAATG 120
GTGAATGAAA 130

50 SEQ ID NO:2205
SEQUENCE LENGTH:176

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02516

SEQUENCE DESCRIPTION:

GATCTCCTAT GTTACCAATG TGTATCGTCT CTTTCTCCCT AAAGTGTACT TAATCTTTGC 60
TTTCTTTGCA CAATGTCTTT GGTGCAAGT CATAAGCCTG AGGCAAATAA AATTCCAGTA 120
ATTCGAAGA ATGTGGTGTT GGTGCTTTCC TAATAAGAA ATAATTTAGC TTGAAA 176

SEQ ID NO:2206

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02517

SEQUENCE DESCRIPTION:

GATCATGTTA TGAATTTGTA ACATTCACAC AACACCTCAC TTTTNAATCT ATAAAAGAAT 60
TGCACGTATG ANAACCTAT ATTTNAATAC TGCTGAAACA GACATGAAAT AAAGAATTTA 120
AAGAATGAAA 130

SEQ ID NO:2207

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02518

SEQUENCE DESCRIPTION:

GATCTAGCTT CTGGCTCTGT GTGTTTATTG ACCAGTGGTG TGCCTTGAGA AACCAGAACT 60
CTCTGAATTT CAGTTTTGTC TCTNTNTAAA TGAAGAAGGT TGTAATAAAA AAAATCTCAA 120
GTTTCAAA 128

SEQ ID NO:2208

SEQUENCE LENGTH:349

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02519

SEQUENCE DESCRIPTION:

GATCCGTCAT GGNCAACGAG AAGCACAGCA AGAACATCAC CCAGCGCGGC ATACGTGCGC 60
AAGACCTCGA GAAATGCCCC CGAAGAGAAG GCGTCTGTAG GCCCTGGTTA TTGGCTCTCT 120
TCACTTTTGT NGTCTGTGGT TCTGCAATTT TCCAGATTAT TCAAAGTATC AGGATGGGCA 180
NNTGAAGTGA CTGACCTTAA NTGTTTCCAT TCTNCTNTGA ATTAACTTA ACTCATTCT 240
GATGTTTGAN CCCTGGTTNA ACAATTCAGT AAANATCTGC TAGAATNCTT NCTATCATNT 300
TCATGTGCAT TCAAGNTTCT CATNGCATCC ANGTTCTAGN CAACACAGN 349

SEQ ID NO:2209

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02520

SEQUENCE DESCRIPTION:

GATCACCAGG CAGCGACCTC CGCNCACCCC AGCAGTCGCG AGCCTCGGCC CAGCCANAGG 60
 AAGCGNTGCC GNCGGACCTG ACTGACTTCC CAGTGGAAC TGCCTTCTNG GCTGGGACAG 120
 CCNTTTN 127

SEQ ID NO:2210

SEQUENCE LENGTH:126

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02521

SEQUENCE DESCRIPTION:

GATCTGGGCC ACTTCCTCC TTCCAGTCAT GAGTAATCAT CAAGGAGCAA GTTGGAGTGT 60
 TTCAGGTGTA TATTTGTAG AACCCAAAAG ATTGGAGCCT TAACAATAAA CATCAGCACT 120
 AAGAAA 126

SEQ ID NO:2211

SEQUENCE LENGTH:126

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02522

SEQUENCE DESCRIPTION:

GATCTTTCAT AAAGCAGAAT GGTACGTATC GGATTGTTTT AATGTTATAT ATTGGATTGT 60
 ATTCGTTGTT ACAAACCAA TATTCTATGG AGAATGAAAA AAATAAAGGA CTAAATTAAC 120
 TGGAAA 126

SEQ ID NO:2212

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02523

SEQUENCE DESCRIPTION:

GATCTCGCAA AGTTATTCTT CCACCATGGC CAACAACGAA GGACTTTTCT CCCTGGTGGC 60
 GAGGAAGCTG AGCAGACCCC TGTGATGCCT GTNACCTCAA TNAAGCAAT TCCTTGACC 120
 TGTCAA 127

SEQ ID NO:2213

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02524

SEQUENCE DESCRIPTION:

GATCAATGTA CTTTTATAA ACTTGCCATA GATATCTCAG ATTTGAAACC TCAAGACAGA 60
 TTTATTATC TTAAATGCTG TATGATAATG AAGAAAAATA AAAATTATT TCTTGCAAAG 120
 TTA 125

SEQ ID NO:2214
SEQUENCE LENGTH:121
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS02525
SEQUENCE DESCRIPTION:
GATCAGTTTG GAGAGTAGGG GGCCACTCAT ATTCTGGGCT CCTGGAACCA ATCCCGTGAA 60
10 AGAATTATTT TTGTGTTTCT AAAACTATGG TTCCAATAA AAGTGACTCT CAGCGAGCAA 120
A 121

SEQ ID NO:2215
SEQUENCE LENGTH:124
15 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02526
SEQUENCE DESCRIPTION:
GATCCCCGCA TGGTGTGGG GGTGCTGGTG TGTCTGGTG CCTGGACTTG AGTCTCACCC 60
20 TACAGATGAG AGGTGGCTGA GGCACCAGGG CTAAGCAATT AAACCAGTTA AGTCTCCAG 120
GAAA 124

SEQ ID NO:2216
25 SEQUENCE LENGTH:120
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02527
30 SEQUENCE DESCRIPTION:
GATCAAAAAG GGGTCTGAGG TTGCATCAGG GAGACAACTG TAATGATATA AGCAATAGTT 60
GAGAACTGA CAGCAAGTAA TAAGACAGGA AGAATAAAAC TAGAAGAAGT CAGAATGAAA 120

SEQ ID NO:2217
35 SEQUENCE LENGTH:120
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02528
40 SEQUENCE DESCRIPTION:
GATCTGAGTT CTGAGCAAGT CAGACTCCTT CCTTTTGCC TCCAAAGCCA CAGATGTTGG 60
CGGGCCACC TGTTAACTC TGTATTATT TCCAATAAA GAAGGGCTTC CAAAGGCAAA 120

SEQ ID NO:2218
45 SEQUENCE LENGTH:120
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02529
50 SEQUENCE DESCRIPTION:

GATCGGAAGT GTAAAGCTAT AATCCCCAGA ATTAAAGTTT TTATTATTTT TTATACATTG 60
TAAACATAG ACGTTTATTT ATGTGATTAA NTTCTATTAA AATTACATG CTAAANTAAA 120

5

SEQ ID NO:2219
SEQUENCE LENGTH:115
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10

CLONE:HUMGS02531
SEQUENCE DESCRIPTION:
GATCCAGTTT TTCTGGGAG GTTGATCTG GTCATAAGGT AAACATTCTA TATATTCTAT 60
GCCTGCTCTA GAATTGAAAG ACTTCAGCAG TATTAAAGCA TTTTAAATC TTAAA 115

15

SEQ ID NO:2220
SEQUENCE LENGTH:122
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

20

CLONE:HUMGS02532
SEQUENCE DESCRIPTION:
GATCTGTATT TGTATATGCT GATGCAATGA TAAAAATCAC TGTAATAGNT TCATTGTGTT 60
GTACTGGATG CAAAGCTAGA AAATATTGCA ATANNTGAGA CCGATGAAAG ACTTCTCTGA 120
AA 122

25

SEQ ID NO:2221
SEQUENCE LENGTH:110
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

30

CLONE:HUMGS02534
SEQUENCE DESCRIPTION:
GATCTTGGGC AAGTTAATCT CTGGGAACCT TGGGTTTCTT ATCCTCAAAA AAGGCGATGG 60
AAGGNCCTGG NCNCGTGATT AAATAAAGC AACGCAAGAA AAATGCCAAA 110

35

SEQ ID NO:2222
SEQUENCE LENGTH:109
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

40

CLONE:HUMGS02535
SEQUENCE DESCRIPTION:
GATCGATGGT ACTTTTGGAA AATGCTTTAT TGCAAAAAAG TGGCTAGGGT TTTACAAGGN 60
CTATGAAGAA ACATATTAAG GTTAATAAAG CTTTTTATTG AGTGTTAAA 109

45

SEQ ID NO:2223
SEQUENCE LENGTH:105
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

50

CLONE:HUMGS02537

55

SEQUENCE DESCRIPTION:

GATCCTCCCT TAGAGCATTT GGAAGAGTGT GGCCCTGCCA ACACCTTGAC TTCAAAC TTC 60
 TGGCCTCCAT AACTATGAAA TAAATNCTTG TTGTTTAAAG CCAAA 105

5

SEQ ID NO:2224

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

10

TOPOLOGY:linear

CLONE:HUMGS02538

SEQUENCE DESCRIPTION:

GATCTGTCCA CTTCTGGTGT CAAAGATTTT ACTCATCTTC TTAGTACATT CTATGTATTT 60
 NATATGTATA ATTTTATACA ATTAATAATA GATTTTNGTC TAGTGAAA 108

15

SEQ ID NO:2225

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

20

TOPOLOGY:linear

CLONE:HUMGS02540

SEQUENCE DESCRIPTION:

GATCTTATAT CATTACAGTA GCCTTTTTGT AGAATCCATC CTATTTTCCA CATGGATAAT 60
 CATGTCAATGA AGAATAAAGA CAGTTTACT TCTTTCCTTA AA 102

25

SEQ ID NO:2226

SEQUENCE LENGTH:100

SEQUENCE TYPE:nucleic acid

30

TOPOLOGY:linear

CLONE:HUMGS02542

SEQUENCE DESCRIPTION:

GATCCCAGGG GAGGGGTCTC TCCTCCCACC CCAAGNCATC AAGCCCTTCT CCCTGCACTC 60
 AATAAACCTT CAATAAATAT TCTCATTGGT CAATCAGAAA 100

35

SEQ ID NO:2227

SEQUENCE LENGTH:97

SEQUENCE TYPE:nucleic acid

40

TOPOLOGY:linear

CLONE:HUMGS02543

SEQUENCE DESCRIPTION:

GATCTGCTGC TTCCAAGTTG TGTGACCTTG GCTAAGTCAC TTAACCTTTC TGATTGTCAT 60
 TTCGCTTTTT AATAAAGTGG GTCTGGTGAA CAAGAAA 97

45

SEQ ID NO:2228

SEQUENCE LENGTH:97

SEQUENCE TYPE:nucleic acid

50

TOPOLOGY:linear

CLONE:HUMGS02544

55

SEQUENCE DESCRIPTION:

GATCCCACTG TATGGCTATA CGGTATTTTA TCAGTGCATC CACTGTCGGG TTTTCCCCT 60
TGTGGACTAT TATGAATAGT GGACGCTTGT GTGCAAA 97

SEQ ID NO:2229

SEQUENCE LENGTH:94

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02545

SEQUENCE DESCRIPTION:

GATCAGGTGA GCTGTGTCCA GAAAACCAAC GAGAAGGAGT GGAAGGAGGA ATGAACGTTT 60
CATTCTCGTT AATAAAGGCA TTATCCTAAT TAAA 94

SEQ ID NO:2230

SEQUENCE LENGTH:102

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02546

SEQUENCE DESCRIPTION:

GATCTAATCT ATTCCTGGGG CCATAACTCA TGGGAAAACA GAATTATCCC CTAGGACTCC 60
TTTCTAAGCC CCTAATAAAA TGTCTGAGGG TGTCTCATGA AA 102

SEQ ID NO:2231

SEQUENCE LENGTH:93

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02547

SEQUENCE DESCRIPTION:

GATCATATAT TTGTGGCATA CAGTGTGATG TTTTGACATG NATATAATTT TGTATACAAT 60
GTGGAATGAT TAAACAAGC TAATTAACAT AAA 93

SEQ ID NO:2232

SEQUENCE LENGTH:92

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02548

SEQUENCE DESCRIPTION:

GATCTGCACT TCCTCCCTT TCACCTACCT GTACACCTAA CCTGGCCTTA GACTGAGCTT 60
TATTTAAGAA TAAATCGTG GTGTTGGTCA AA 92

SEQ ID NO:2233

SEQUENCE LENGTH:91

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02549

SEQUENCE DESCRIPTION:

GATCAGTGGC TGCTGGGTGG CGGGTACCCT TNCTCAGATG CCTGGCAGGN CTGGNTGGCG 60
ATTCATAAAG ACCTCGTGTT GATTCCCCAA A 91

5
SEQ ID NO:2234

SEQUENCE LENGTH:89

SEQUENCE TYPE:nucleic acid

10
TOPOLOGY:linear

CLONE:HUMGS02551

SEQUENCE DESCRIPTION:

GATCTAACCC CTTACCCATC TNTCTACTGC TGGACTGTGG AGGGTCACCA GGTTGGGAAC 60
ATGCTGGAAA TAAACAGCT GCAACCAAA 89

15
SEQ ID NO:2235

SEQUENCE LENGTH:88

SEQUENCE TYPE:nucleic acid

20
TOPOLOGY:linear

CLONE:HUMGS02552

SEQUENCE DESCRIPTION:

GATCTTTTGG AGAGAAACAA ATGAGGATTG TAAAGTTTGG GGACTTACCT CTGTAGCATT 60
GTGAAATAAA ACTTTGATTA AGCTGAAA 88

25
SEQ ID NO:2236

SEQUENCE LENGTH:88

SEQUENCE TYPE:nucleic acid

30
TOPOLOGY:linear

CLONE:HUMGS02553

SEQUENCE DESCRIPTION:

GATCACCTCG GCGTCTGTTT TGTATGCTCT TTACCTATGG ACTAGTTTGT GGACGGCTAA 60
GAAATACAGC CTCAGCATTG ATTTGAAA 88

35
SEQ ID NO:2237

SEQUENCE LENGTH:88

SEQUENCE TYPE:nucleic acid

40
TOPOLOGY:linear

CLONE:HUMGS02554

SEQUENCE DESCRIPTION:

GATCTTAAGG AGTGTAATTT GCAATCTAAT TTTATCCTCT TACTCTGTGT TGTTAAACCA 60
TATACAATAA ACGGTGTTTA TGGAGAAA 88

45
SEQ ID NO:2238

SEQUENCE LENGTH:96

SEQUENCE TYPE:nucleic acid

50
TOPOLOGY:linear

CLONE:HUMGS02555

EP 0 679 716 A1

SEQUENCE DESCRIPTION:

GATCTGGCTG TGAGGCCCTC AGGGCAGGGA TACAAAGCGG GGAGAGGGTA CACAATGGGT 60
ATCTAATAAA TACTTAAGAG GTGGAATTG TGGAAA 96

SEQ ID NO:2239

SEQUENCE LENGTH:86

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02556

SEQUENCE DESCRIPTION:

GATCCGGGGA CCAGGGGCTG ACCTCCATTC GTACCCCACT GCTTTGGAGN TGATGGGACT 60
ATCAATAAGA ACTCTGTTCA CGCAA 86

SEQ ID NO:2240

SEQUENCE LENGTH:90

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02557

SEQUENCE DESCRIPTION:

GATCAAACCA TTINACCTGG AGTTTGGTAC TGGTTTAAAC TTCTCTNAAT CTGTATAAGA 60
AAAATGAAGA CAATTGAACT TTCAAACAAA 90

SEQ ID NO:2241

SEQUENCE LENGTH:85

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02559

SEQUENCE DESCRIPTION:

GATCCAAGTT TTGCGGGGTC TAAAGCTGTG TGTGTTGAGG GGGATACTAA GTTTATGAAA 60
AAGAATAAAA AACACAACCA CGAAA 85

SEQ ID NO:2242

SEQUENCE LENGTH:84

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02560

SEQUENCE DESCRIPTION:

GATCTCGCCA CTNTTCTCCA ACCTGGGCAA TAAAGCAAGA NCCTGTCTTC AAACAAGCAA 60
ATAAAAACTT CCTTATCCTG CAAA 84

SEQ ID NO:2243

SEQUENCE LENGTH:80

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02562

SEQUENCE DESCRIPTION:

GATCCTGTTA GCTTTCTGAA TGTTCGTGG TTGAATGTGT TTTTGCTTAA ATAAAGCTTT 60
TGGTATTTGT TTAAATTAAA 80

5

SEQ ID NO:2244

SEQUENCE LENGTH:79

SEQUENCE TYPE:nucleic acid

10

TOPOLOGY:linear

CLONE:HUMGS02563

SEQUENCE DESCRIPTION:

GATCCCAACC GTTTGGCACA GCTTTGGCCA CAGCCAGGCC CCTCTGGAAT TGCCTTATT 60
AAACCAGTTT CCCGAGAAA 79

15

SEQ ID NO:2245

SEQUENCE LENGTH:78

SEQUENCE TYPE:nucleic acid

20

TOPOLOGY:linear

CLONE:HUMGS02564

SEQUENCE DESCRIPTION:

GATCCGGGTC AATGCTTCGT TTTCTAAAGG ATGCTGCTGT TGAAGCTTTG AATTTTACAA 60
TAAACTTTTT GAAACAAA 78

25

SEQ ID NO:2246

SEQUENCE LENGTH:76

SEQUENCE TYPE:nucleic acid

30

TOPOLOGY:linear

CLONE:HUMGS02565

SEQUENCE DESCRIPTION:

GATCTTGGTT TTCCATGAAT ACAGCATGTA TAATAAAAAT TTTAAGAAAT AAATGTTATT 60
CTACTTTATT AACAAA 76

35

SEQ ID NO:2247

SEQUENCE LENGTH:74

SEQUENCE TYPE:nucleic acid

40

TOPOLOGY:linear

CLONE:HUMGS02567

SEQUENCE DESCRIPTION:

GATCTTCTGC CGGGCGTGCC CCAGAGGACA GTGGGTGGAG TGGTCCTACT TATTAAATGT 60
CTCAGCCCCT CAAA 74

45

SEQ ID NO:2248

SEQUENCE LENGTH:73

SEQUENCE TYPE:nucleic acid

50

TOPOLOGY:linear

CLONE:HUMGS02568

55

SEQUENCE DESCRIPTION:

GATCTCACCT TTGCAAAGTT GGATAGTCAA TTTGTTTTTA GAGGAAATAA AACACTTATT 60
CTGTGATTTT AAA 73

5
SEQ ID NO:2249

SEQUENCE LENGTH:73

SEQUENCE TYPE:nucleic acid

10
TOPOLOGY:linear

CLONE:HUMGS02569

SEQUENCE DESCRIPTION:

GATCTGGAGA GAAAAACATT CAAACCATTG CATCATACAA AAAAAAGGCT ATTAATAAATT 60
GGATTATAGC AAA 73

15
SEQ ID NO:2250

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

20
TOPOLOGY:linear

CLONE:HUMGS02570

SEQUENCE DESCRIPTION:

GATCAGAGTA AGAATGTCTT AAGAAGAGGT TTGTAAGGTC TTCATAACAA AGTGGTGTTT 60
GTTATTTACA AA 72

25
SEQ ID NO:2251

SEQUENCE LENGTH:74

SEQUENCE TYPE:nucleic acid

30
TOPOLOGY:linear

CLONE:HUMGS02571

SEQUENCE DESCRIPTION:

GATCAAATCT GTACAGTTTC TATTGTTCCA GATTTTTTTA AGTTTGTATT AAAAGCATGA 60
TACATAATAG TAAA 74

35
SEQ ID NO:2252

SEQUENCE LENGTH:71

SEQUENCE TYPE:nucleic acid

40
TOPOLOGY:linear

CLONE:HUMGS02572

SEQUENCE DESCRIPTION:

GATCTTTTCA GTGTTTTTTC ACTTTAGCTA TGTGGATTAG CTAGAATGCA CACCAAAAAA 60
ATACTTGAGC N 71

45
SEQ ID NO:2253

SEQUENCE LENGTH:71

SEQUENCE TYPE:nucleic acid

50
TOPOLOGY:linear

CLONE:HUMGS02573

SEQUENCE DESCRIPTION:

GATCCAGGAG GGAGCCACCC CCAAGGACCC TGCCAGCCAC AGACCTCCAA TAAAGACAGC 60
ATGGAACAA A 71

5
SEQ ID NO:2254

SEQUENCE LENGTH:71

SEQUENCE TYPE:nucleic acid

10
TOPOLOGY:linear

CLONE:HUMGS02574

SEQUENCE DESCRIPTION:

GATCTGATGT GAATTCAGAT TTCCAATCTT CTCCTAGCCA ACCATTTTC TGGAATNAAA 60
AATTCAGTAA A 71

15
SEQ ID NO:2255

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

20
TOPOLOGY:linear

CLONE:HUMGS02575

SEQUENCE DESCRIPTION:

GATCCAGAAG TTCTAAATCC AGGATTTTAA TTAGTAACTC AAATAAAATG CCACACATT 60
TCATACAAA 69

25
SEQ ID NO:2256

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

30
TOPOLOGY:linear

CLONE:HUMGS02576

SEQUENCE DESCRIPTION:

GATCATAGTA GTGCCGCTGT TGAGTGATAA AGCAACTTGT CATTAAAGAT GTGTGTNCAG 60
ACATGGAAA 69

35
SEQ ID NO:2257

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

40
TOPOLOGY:linear

CLONE:HUMGS02577

SEQUENCE DESCRIPTION:

GATCCCAGCC CAAATNNGCC CATTACACA ATCAGGAGCN AAATAAATTA CTGTTGTCTT 60
AACACTAAA 69

45
SEQ ID NO:2258

SEQUENCE LENGTH:68

SEQUENCE TYPE:nucleic acid

50
TOPOLOGY:linear

CLONE:HUMGS02578

SEQUENCE DESCRIPTION:

GATCTTCAGC TGTTTGCCCG TNCTTATTAC ATAAACTGAA AACAGGATAA AAACGGAGTG 60
CAATGAAA 68

5

SEQ ID NO:2259

SEQUENCE LENGTH:63

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10

CLONE:HUMGS02580

SEQUENCE DESCRIPTION:

GATCTGTCAA AGATATGAAC ATGAAAGAAC AGCTTATTTT AATAAACCCA CTTTACATAC 60
AAA 63

15

SEQ ID NO:2260

SEQUENCE LENGTH:63

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

20

CLONE:HUMGS02581

SEQUENCE DESCRIPTION:

GATCAAAAGT AAATGTTCTC TTGCCATTT TAGATGGAAA AATAAAAAAA ATTAAAAAGT 60
AAA 63

25

SEQ ID NO:2261

SEQUENCE LENGTH:86

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS02582

SEQUENCE DESCRIPTION:

GATCTACATG AAGGAACTGT AGATGATGTA TTTTTTTCAT CTTTTTTGTT AACTGATTG 60
CAATAAAAAT GATACTGATG GTGAAA 86

35

SEQ ID NO:2262

SEQUENCE LENGTH:60

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

40

CLONE:HUMGS02583

SEQUENCE DESCRIPTION:

GATCCCTTTT TTATTTTGTG GTTTTTTAAT ATAGTATAAA AATCCTTTTA AAAAAACAAA 60

45

SEQ ID NO:2263

SEQUENCE LENGTH:67

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50

CLONE:HUMGS02585

SEQUENCE DESCRIPTION:

55

GATCAAAACA GGATTCCATT GACCTAATTA TATTAAGCTA ATAAACTAAT TTTTGAATT 60
TTTGAAA 67

5 SEQ ID NO:2264
SEQUENCE LENGTH:58
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS02586
SEQUENCE DESCRIPTION:
GATCAATATT TATTGACTTG TAGTAACTGC CACCAATAAA GCAGTCTTTA CCATGAAA 58

15 SEQ ID NO:2265
SEQUENCE LENGTH:55
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02588
20 SEQUENCE DESCRIPTION:
GATCAATAGA CTGTACTTAT TTTCCAATAA AATTTTCAA CTTTGTACTG TTAAA 55

25 SEQ ID NO:2266
SEQUENCE LENGTH:53
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02589
30 SEQUENCE DESCRIPTION:
GATCATTCTC AGTATCCACT GTCTATGTAC AATAAAGGAT GTTTATAAGC AAA 53

35 SEQ ID NO:2267
SEQUENCE LENGTH:53
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02590
SEQUENCE DESCRIPTION:
GATCCATTN TTTTGTGAAT GTGCTAAATA AAAAGTGTTA TNAATTGCTG AAA 53

40 SEQ ID NO:2268
SEQUENCE LENGTH:52
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
45 CLONE:HUMGS02591
SEQUENCE DESCRIPTION:
GATCCTGCAT CCCACTCCCT GGGAGCCAAT AAAGTGCATT TTCACAGGCA AA 52

50 SEQ ID NO:2269
SEQUENCE LENGTH:50

55

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02592

SEQUENCE DESCRIPTION:

GATCACAAAG TCAAAAACCC ATAAGAAAAA TTGAAAAAGC TACAAGCAAA 50

SEQ ID NO:2270

SEQUENCE LENGTH:50

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02593

SEQUENCE DESCRIPTION:

GATCATATTT TCTATTAAAG TGGCTAACAC CTGGCTACTC TTACTGTAAA 50

SEQ ID NO:2271

SEQUENCE LENGTH:290

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02612

SEQUENCE DESCRIPTION:

GATCTGTAAA TAAATCAGT GCACTGTGAA TCACACCCAG CCCCTTTCCC TGCTGTGTGG 60
ATTAGGTGTC AAGACACCTA GTTCTTTCTG GGGCCACCCG GCTGGCCTCA CTGCTTATAT 120
TAAGGCTCCT CCAACTCTC ATTTTCCTTT GGAAAACAAG ACTTTTTTCC CCATGGTTAC 180
CGCTGAGATA CTGGGGCTGT AGTAGTATAA AAGCTCACAG TTCCTTCTGA GTGCTGAAAA 240
GAGTGCATGA GTTGCTTCGA AATAAAAGGG TCAAGCATTG CTACCTGAAA 290

SEQ ID NO:2272

SEQUENCE LENGTH:556

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02627

SEQUENCE DESCRIPTION:

GATCTGTGCT TCCNACTCAC ATGTNAGGCC ACGCCATCCT CTTGCTGAAN CCCTATTGAT 60
GCTTTCTAAC AGGTTCTCGT GTCTCTCCCT GACCAGGCC TCTTACAGAC TGCAGAATTA 120
CCATCCACAG TGTACATTGG ATGAGAAATG GTCACCACCA TGCTTAGAAC CACTCCTATC 180
ACTGACAGGT CAATATCTGA GCTCCTTGGC ACAACACACA TGTCAGGGA GTGGCCAGTA 240
ATTAGTTGTG CCTGGAGTAT TGAGAGCATC AGTGGCCGGG AACATCAGGC AAGATGTGAT 300
GTTTTAAAGA GCCTTGAATG CCATGCTAAG GACTTNGAAC TGCATTGCAC AGCCCATGGG 360
GAGCTCTGGA AGGTTTAAAA GCAGNGAAGA NCCTTGCCTT TGTCTAAATT CTGTAAGTCT 420
CAAGCACTTC TGCTTTCCTT CATAGNACTT TGTAATTAT TTCAATTGGC TTGGTTNATT 480
TTTNCNNA TTTTCCCTT AAATTTCAAN GTTTTGGGC GGGATTAAAT NNTGGCTTTT 540
TTGNTCNCNT TTTAAA 556

SEQ ID NO:2273

SEQUENCE LENGTH:527

EP 0 679 716 A1

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02628

SEQUENCE DESCRIPTION:

5 GATCTGAACA TCTGGCCCAA GTGAAGCATG GCATATAGTG CCCTTGAAG AAAATTAGGC 60
 CTCAAATGAC AGTAGCATTG AAGTGTTTGC TGCAGAGTTG AGGGAAACCC CCAGCCACCC 120
 TCCCGGAATC CGAGATAGGG TGGCACATCT GTCCTGACAG ACGAGGAGTG TAACTNAACC 180
 10 AGGAATATTT CCTCCATTCC TGCTCTCCCA CTGCACACAG GGTGGTGGCA CATTATCCCT 240
 CTGGGGGGTG GGGACGCCGT TTGTTTTGGC TCAATTTGGG TTTGTTGGTC ACATGGAGCT 300
 CTTCCATTTC GTTTAGCTGA ATAATGAGTT GTTCCTAGAG GAGACAGCCT GTCTCTCCTT 360
 GTTNCCNCA AAGCCCATGN CCTGNCGTGG TGGANCTGGG GCTTTTGGNT GGGGAGGGGN 420
 CCAACAATG GATNTTNTTN CCTTNCTCCG AATTCCAACG GANTNNAATG TNCAAAGGCC 480
 15 CTTTNGAAAC TTGGNGGGAA ANTAAATTNC TNTNCCCTNG NNGTGGN 527

SEQ ID NO:2274

SEQUENCE LENGTH:458

SEQUENCE TYPE:nucleic acid

20 TOPOLOGY:linear

CLONE:HUMGS02629

SEQUENCE DESCRIPTION:

25 GATCAGCAGC CAATATGGGT TTGTTTGGTT TTTTAAATC TAAAAACAN CCTNTAGAGG 60
 AATAGAAACA AATTTTTATG AGCATAACCC TATATAAAGA CAAAATGAAT TTCTGACCTT 120
 ACCATATATA CCATTAGGCC TTGCCATTGC TTTAATGTAG ACTCATAGTT GAANTTAGTG 180
 CAGAAAGANC TCAGATGTAC TAGATTTTCA TTGTTTCATTG ATATGCTCAG TATGCTGCCA 240
 CATAAGATGA ATTTAATNNN NNNCAGCCAA AGCAATATAC TCTTACATGA TTTCTAGGCC 300
 30 CCATGACCCA GTGTCTAGAG ACATTAATTC TAACCAGTTG TTTTGCTTNT AAATGAGTGA 360
 TTTCCATTTT GGGGAACAGG TTTCAAATGG ANTATATNTA CATGGGTAAA ATTCCCCTGT 420
 GCTAGTGTAG GNCTTTCCTN GGGGAATGTT TTATGGGN 458

SEQ ID NO:2275

SEQUENCE LENGTH:452

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS02630

SEQUENCE DESCRIPTION:

40 GATCGACTAC AAGCCAGCCC CTANGCACCT GCTGCTACAT CATGAAGNTA NCTCCAGAGA 60
 GCATCCCCAG TCTTGAGGNT CTCAATAGAA AAGTCCACAA CTTCCAGGCC AAGCCCGCAG 120
 TGCCTACGTC TAAGCTGGGC CAGGCAGAGG GNCGAGATGC AGGCTCAGCA CCCTCCGGAG 180
 GGGACCCGGC CTTCTGGGN NTNGCCGTNA NCACCTGTG TGGCGAGGTG CCGCTCTACT 240
 45 ACATCTAGGA CGNCTCCGT GAGCAGGGTC AGTGGAAGCC CCAACGGGAA AGGAAACGCC 300
 CCGGCAAAAG GGTCTTTTGC AGCTTTTGCA GACGNGCAAG AAGCTGCTTT CTTCCACAA 360
 CCGNAGGACC AAAACCCTTG GAGAAANTGN GNAGNTTGGN GGAGATGGAT TTGGGAGTTT 420
 GGCAANAGGG TTGGACCCNA NGNGGGCCCC GN 452

50 SEQ ID NO:2276

55

SEQUENCE LENGTH:451

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02631

SEQUENCE DESCRIPTION:

GATCTTGTTT ACTTTTGGAC ATCAAGCCCA TCACTGCCAG CCAGTNAAGA AGGATTCCAG 60
 CCTATGCCCT CAATACAAT AAGACCACCA GATGACCAAC ATCTTCCTAC TGCAAATACT 120
 TGCATTCTC GACTTTACGT CCCACTCTAT TCCTCTAAAC AGATTCTCAA ACAGAAATTG 180
 TTACTCGCCA TTAAGACCAA GAATNTTGGC NNGTGTAGA GTATAAAAAG TGTGTATTGC 240
 TGTGTAATAT TACTAGCAA TTTTGTAGAT TTTTNTCCAT TTGCTATAA AAGTTTATGG 300
 AAGTTAATGC TGTATACCC CCCTGGTGGT ACCTTAAAGA GATAAANTGC AGACATTCCT 360
 TGCTGAGTTT ATAGCTTAA AGGCCTAAGG GAGCACTAGC AANCATTTTG GGCTATATTT 420
 GGGTTTGCTA GGTACCAAC TTTCTGGGG N 451

SEQ ID NO:2277

SEQUENCE LENGTH:446

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02632

SEQUENCE DESCRIPTION:

GATCCAGCCA GGCATCTCGG CGCTTTGGCA CCATGAGTTC TATGTCTGGG GCCGACGACA 60
 CTGTGTACAT GGAGTACCAC TCATCGCGGA NAAGGCGCCC AGCAAACATG TACACCCGCT 120
 CTTCAAGCGC TTAGGAAAT NATNCTTAGG CAGGGTACTT CGTTCAAGAC CGGCGCTTGG 180
 CACCCTTGTT GGAAAGGGNT TTTAGCATA ACATTTTCCT TCCACCTCTT TGACCTTCCC 240
 TCCAGCGTTG GCCAAATTGT GCTGAGGAAG ATGCATCAAG NGNTTGGCTG TGCCTTCATA 300
 GGTCACTAG GGTTTTATAA AGGAGGAGGA GACAATATT NTTCAAACCT TTTTGGGAGT 360
 GGGGTCATTT TCTGTATATA AANAATGTTA ATATTAAAGG TGTAGTTTAT GTTACCGTTC 420
 TGAATAAACA GATTNGGCCA TTNAAA 446

SEQ ID NO:2278

SEQUENCE LENGTH:425

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02633

SEQUENCE DESCRIPTION:

GATCCACACC TGACCCTGTT GGGTCGAGTT AGGNTGGGCC TTGGTCTGCA CTGTAGCACC 60
 TNTGTTCTTT GAGTTCACAT CATGAATGTG GTGACTTNCC AGNTACCATA TCAGGCTTAA 120
 CCTAGCACAT CCTATTTCTT TNCTTCTATG ATATCCAAAT TGGACTGACC TCACCTCAAA 180
 GTTGCTGTCC CATTTTGTCA CCCTATCTTA TCTCGGGGAA ATTGCAGACT GATGGCCAGA 240
 CCAACTCTGT TGAATTCTT GCATAGAGCA AACCTGTGCT CATTTTAAAG TGGCATGGGA 300
 GAGGCCCCCA GCCTAGTAAA GCCTAGTCTG TGTCTTACA GTGCTGGTAG NATGNGTTTT 360
 GTGTGTATAA ATATATGATA TAGGATTGAT AATATGTTNN CTAACGGCCA TATTATTGAA 420
 GGGCN 425

SEQ ID NO:2279

SEQUENCE LENGTH:414

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02634

SEQUENCE DESCRIPTION:

GATCTGCCTT AACTCCAAC TACATGTTTT GGTCAC TATT ACAAACTGTC ATCCCAGAAT 60
GATGCTGCAG AGGCTAGGGC TAGGACACAG ACCAGTGTTC CATGTGGGA ATTCCCTCCC 120
AGTATTTCTT AGGAANNNTA TGTTTTTTGA ATCCATAATC CTTAGAAAAA TCAGTTGAGG 180
AAATGAGAAG TATTGTAATT ATNCTGTGAA TAGTAACACT TACCATTATG GAGACATCAC 240
TAGTTTGAAA GANTCCAAC TCAATCAATN TTAACGTACC GAGTTGAAGG NTACAAGANC 300
TGAGACAGGA GCATAGCAGA GGAGAAACGG TCACCATCTC ATTAGCCCTA TTTTGGGNT 360
TGTGTGATG CCATTACATC TGAATAATC TGGGCCATNT CAGCTGCTAA TGGN 414

SEQ ID NO:2280

SEQUENCE LENGTH:293

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02635

SEQUENCE DESCRIPTION:

GATCTCACCT TCCTTCGAAT TCGCTCCAAG AAAAATGAAA TTATGGTTGC ACCAGATAAA 60
GACTATTTCC TGATTGTAAT TCAGAATCCA ACCGAATAAG CCACTCTCTT GGCTCCCTGT 120
GTCATTCCCT AATTTAATGC CCCCCAAGAA TGTTAATGTC ANNNNNGTCA GTGGACTAGC 180
ACATGGCAGT CGCTTGGAAC CCACTCACAC CAATCCAGTG ACCGTGTGTG GGCTGGNGGC 240
TCTNTNTCCC NCNCCAACGG AACCCCNCTG TGCACCAACC TTTNNCNCAG AGN 293

SEQ ID NO:2281

SEQUENCE LENGTH:400

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02637

SEQUENCE DESCRIPTION:

GATCTGGCAG GGCACCACAG CGCCCCCTAC TGAACCATCA GCATGTCAGT GGCATTTAAA 60
GCCATGCAGC TGGAGGGGCC ACTGAGATTG TCTCTGAGTA TTACTGAGAA GCAACAGAAA 120
AGAGCCATGG ATGGAGCCCT TGGGCTCTCT GGGAAATGGG AAATCAGCCA AAGGACTGAG 180
AAGGAGTTAC CTAAAGGTCA GAGAAAACCA AGAGAGTGTG GTGTTCTGGA AGCTGAGCTT 240
TCTTTATTCA ACCTCATTCC CTTCTCCAAA TAAGCCACTT GTGTAGTTGG GCCCCCTCAG 300
GGTTGAAGGC AAGAGGAGAA AGGCACAGCG TTTGGGAAAC AAGACTTTTC CTGCAATAGC 360
CTGGGGAAGG AATAAAANGG ATAGAGGTGT TTGGGGGAAA 400

SEQ ID NO:2282

SEQUENCE LENGTH:400

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02638

SEQUENCE DESCRIPTION:

EP 0 679 716 A1

GATCTGTCCA ACGCCTGCAG CGTGGATGTG GAGGCGGACT AATCAACNAG TGCTCTGTTA 60
 TTATTTCTAC CCATCCCTTT TCTCCATGCT AATTGCTTA GAACTTTAAC ATTGAATGGA 120
 CAGCAAAATGT CATGTTCTGT TTAATTATCA CTCCTTGACC ATTATGTTAA TTTCTTTCCC 180
 TAACAAGGTG ACGCATTGTT TTAAGTAACA ATGACCAACT CATCTACTCT TCTTCCAAAT 240
 TGTGTAAATT GAANGGGTAA AATGTGGGAA AACGCTAAAT TTGAATGCTA AATTTGAACA 300
 TTTCACACAA CCAATAATTT TGAAATGCTT CTTNGCAATA TTATNGCGGT TTCGGNACCA 360
 GGTTAAAAAT NNCTTTCATT TTCAGGNCAT TTTGGTCAAA 400

SEQ ID NO:2283
 SEQUENCE LENGTH:386
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS02639

SEQUENCE DESCRIPTION:

GATCGATAAT ATAATTTATA ATGAAATTGC TTTATCAGCT ATTAATGTTA ACTACATCAT 60
 CTTCATATAG CNTTATAACT CATTTGTGCT ATTCCATTTT CCTCTGTTCC TTTTATTTTC 120
 ACTTCCCTTG TAATGTTAGT CTCCTTGTAC TGATTCTGA AGAGTTCATT TATGATTAAA 180
 CATGTTAACA TTTTGTCTAG AATTGCAAAT ATGTTTTTCC TCATTCATTT TACTATGGTG 240
 TTTTATTTTT GGGTTATACA GAAGTNGTAT ATTGAAATAT AATCTNGTNC TGTTTTATGA 300
 CTTTGGAGTT TTGTGGTTTT TTNAACCAN GTTACAGTG GNATCCNTNN ATTNGGTATT 360
 GCCGTCNTAN TNCNGCAGT TAGGTN 386

SEQ ID NO:2284
 SEQUENCE LENGTH:384
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS02640

SEQUENCE DESCRIPTION:

GATCTNNTCA AACAGCAAAC GCCCAGAGG NGGTGGTAAT CAGGGTGTGT 60
 GGGTGNTTTT AGGGTTCCTT AGTGTGTTTT CTTTCACCCA GGCGGTGGTG GTCCAGCCA 120
 GTTTGGTGCT GACGGTGAGA GGAAATNAGA ATCTGTTTGC AAATTGTCCA ACCCAGCCCC 180
 TCAACATGAG GGGCTTCCAT TTTNTGTGTT TTGTAAGGGA ACTGTTTCCT TCATGCCGCC 240
 ATGTTCTGA TATTAGTTCT GATTTCTTTT TAACAAATGT TATCATGATT ANGAAAATTT 300
 CCAGCACTTT AATGGCCAAT TAACTGAGAA TGTAAGAAAA TTGATGCTGT ACAAGGCAAA 360
 TAAAGCTGTT TATTAACCTT GAAA 384

SEQ ID NO:2285
 SEQUENCE LENGTH:383
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

CLONE:HUMGS02641

SEQUENCE DESCRIPTION:

GATCTTTTCT ATAATATCCT ACTACTTTGG TTTTCCTAGC TCCATACCAC ACACCTAAAC 60
 CTGTATTATG AATTACATAT TACAAAGTCA TAAATNTGCC ATATGGATAT ACAGTACATT 120
 CTAGTTGGAA TCGTTTACTG TGCTAGAATT TAGGTGTGAG ATTTTTTGTG TCCCAGGTAT 180

AGCAGGCTTA TGTGGTGG CATTAAATTG GTTCTTTAA AATGCTTTGG TGGCACTTTT 240
 GTAAACAGAT TGCTTCTAGA TTGTTACAAA CCAAGCCTAA GACACATCTG TGAATACTTA 300
 GGATTTGTAG CTTAATCACA TTCTAGACTT GTGAGTTGAA TGACAAAGCA GTTGGACCAA 360
 AAANTTTATG GGCATTAAAA GGN 383

SEQ ID NO:2286

SEQUENCE LENGTH:424

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02642

SEQUENCE DESCRIPTION:

GATCTAAAAT ACCTGGTGGC TTTTNACAAA AAGCAGATT TTTTCATGTA CTGTNATGTC 60
 TGATGCAATG CATCCTAGAA CAACTGGCC ATTTGCNAGT TACTCTAAA GACTAAACAT 120
 AGTCTTGGTG TGTGTGGTCT TACTCATCTN CTAGTACCTT TAAGGACAAA TCCTAAGGAC 180
 TTGGACACTT GCAATAAAGA AATTTTATTT TANACCCAAG TCTCCCTGGA TTGATAATAT 240
 ATACACATTT GTCAGCATTT CCGGTCGTGG TGAGAGGCAG CTGTTTGAGC TCCAATGTGT 300
 GCAGCTTTGA ACTAGGGCTG GGGTTGTGGG TGCCTCTTCT GAAAGGTCTA ACCATTATTG 360
 GATAACTGGC TTTTCTTCTC CTCCTTGAA TGTACCATTA NAAATAATTT TTTGAACCAT 420
 CAAA 424

SEQ ID NO:2287

SEQUENCE LENGTH:378

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02643

SEQUENCE DESCRIPTION:

GATCCGAAGA GGAAGGGCGG TCCGGGCTCC AACTTAGCT TCGTGGGCAA ACGCAGAGGC 60
 GGGAAACAAAC TAGCCCTNAA GACGGGAATA GTAGCCAAGA AGCAGAAGNC GGAGGATGAG 120
 GTATTAACAA GTAAAGGTGA CGCGTGGGCC AAGTNCNNGG CAGAAGTGAA AAAGTACAAA 180
 GCTCACCAGT GCGGTGACGA TGATAAACT CGGCCCTGG TGAAATNACG CCCCTCCCCC 240
 ACCTGCCCAT GGCCTGGGAC TCTCTGCAT GTACATAACT ATTTAATGCA GCGGCANGTC 300
 GACAGCTTTC CCTGAGAGGA CTTAAAAGCA GAAGGAAACC GAGATGCTTC CCGNAAGCCG 360
 TGGACGATTC TCCAAGGN 378

SEQ ID NO:2288

SEQUENCE LENGTH:370

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02644

SEQUENCE DESCRIPTION:

GATCTTCTTG ACTATGCCAG TTGTAGTACC AGCTTCTGTA TCTGCACTGA ATTCTGNCTC 60
 AGTAATATGC CTTTGTITAA AATTTAAATA TTTTTCATT TTTTAACTT AGAAAATAAT 120
 TATAATGAAN NNNNTAAGTA TCTCATTITA GGATTCTGAT TTACATAGGT ATCACTGTAA 180
 CTGTGCTGT TTGCATAGGT ATACTCTATC TTGTGCTATC TGCATAAAAT ATCCAAGTAA 240
 ACACATTGTG ATTTTACATC CGTGCATAGA AAAAAAATC ATCTGAACTC AAATCAATCT 300

EP 0 679 716 A1

GTTGATACTG ACTAGATTGG TGACGTGTTT ATGTGTACCA CTAGTGATAA TGCACGGTCC 360
TGTACAAGCN 370

SEQ ID NO:2289
SEQUENCE LENGTH:370
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02645

SEQUENCE DESCRIPTION:
GATCACAGGA ACAGCAGGTG ACAGGCCTAG CTATAGTTAG GAATACACAA GCCGTAAAAT 60
CGAGTCCTTA CAGCCATACC ACAAGGTACG TCCANNTGGA CTACAAGAAG AGCTTCCTTT 120
AAAGTTCTTA TTTAGCATA AAGAGGCTGT CCTTTTTTTT NAGGAATAGT TTGGACCTTG 180
TGCTCTCTGT GGGAGGCTGA GGAAGTCAAG AGGAGAGCTA GCAGATATGC CTGTTACCCC 240
CTCTCTGGTA CTTGTGGCTT GCTAGTATGT TTTNATGATA ATCTCGGGCA TTGTTTGCAT 300
TTGTGTTTAT TAATAGGGTT TTTGTTTTTT GTTGTTCCT NTTTTNACAG TAANGGCTGA 360
ATTACATAAA 370

SEQ ID NO:2290
SEQUENCE LENGTH:367
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02646

SEQUENCE DESCRIPTION:
GATCTGAAAG GAATGCTAGA AGTGTTTAGA GAGCTGACAG ATGTCCGACG CTAAGGGGG 60
CATGCNACAG GGGGAATGGC TCGCTTCAGT GCCCTGCTGC TCAAAGCTCT AGGGNAGAAT 120
GCAGTCGGGT AGNCTGTGGG GCTCTAACCC CACAGCAACC TCTAGGGATG ACGTCACTAA 180
AAACCGATGA AGCCTCCATA ACATTGGTTC CTTACTGACG CTGAGGAGCA NGGCAATCTT 240
CACACCTTAA CCAATGCTAT TCATGTAGGA TGACCAAGAA ATGAATGTTT CTTACTGAAA 300
TAATACATAT TTTTGGCATC TTTTGGTTAC CCATAGACTA ATTAAANCTA ATCCNNGGNT 360
TTATAAA 367

SEQ ID NO:2291
SEQUENCE LENGTH:359
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02648

SEQUENCE DESCRIPTION:
GATCCTGACA GAGCCCTGAA CAGATTATAT CACTCGGCTA GAGGCACTGC AAAGACGACT 60
TGGAACCTATA CAGTCAGGTT CAACTACTCA ATTTTCATGCT GGCATGAGAA GATAATCCTT 120
TGAAACATCA TTAATTGAAG TGATTTTAAA TAGATTTCTT TTTGTAATC AATGGTTCTT 180
TTGTGCTTTN GNNNNNNCGA ATATTCAATG GGACCAATAT GAACACAGCT TATGATTGTA 240
TACAAATCCC TTGCCAGCAC ATGAAANCAA ACTGGANTTT GTATATATAA GCATTGTGTA 300
TGTATTTCATG CACAATAATT ATNGANTTAC CTGTATATTT GTGGGAATGC TAATTTAAN 359

SEQ ID NO:2292

SEQUENCE LENGTH:357

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02650

SEQUENCE DESCRIPTION:

GATCTGTGGG TCCGGCTGNA GGAGAGTGAC ATAGTCCCGC AACTCCANNT TGCCTGTCCT 60
GGACAGGCAC ATCTCCACTG AACTGCCGCT CCNTGCCGCT GGGCATTCCC ACCACAGCCA 120
GATGGTGGCC AGCAGTGCCT GCCTGTNTCT CTGGACTCCT GTGTTCTGGG TGCTGGTGCT 180
GGCTTTCCAA ACAGAGACAC CGCTCCTGTA ACGACTGGAA GCACCAGGCT AAGNACCTNA 240
CCCCTCGNAC TTNGAAGGAA TGGGCATTNC NGTACTTCAA CATTCTGGGT CTAGGCCTTG 300
TTGGGGCCAA TTCAAGAAGN GGCCTTGTTN TTNGAAAAA GTGGGCCNNG TTTTNAN 357

SEQ ID NO:2293

SEQUENCE LENGTH:355

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02651

SEQUENCE DESCRIPTION:

GATCCTTCTT TTTGGTTTTG GAAATATAAT CATTGTTAAT GTTTCCCTC CAAATAGAAT 60
ACTGTTTTAT CCATACAAAT CATAACAGCA TCTATCCCAT GCTAGGGTTG GAACTGATA 120
TTGGTATTAC TTGTGTTTTT CCTAGTGTG TTTATTTCC CAGTTTCATC TNCTTTTAAA 180
AATGAAAATA TGGTGCCTTC CCTCCCTCCA GGAAGACTGG CAAATATTNC CTTTATTTA 240
CTGCTGCTGT GGAGTGATGA GATATGCACT TTACTCTTTA AGATTGAGCA AAAAGCTTTT 300
CACTTCTCAG TATATCCAGA ATACATCATA TCTGGGACTT AGGAAAAATT GCCAN 355

SEQ ID NO:2294

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02652

SEQUENCE DESCRIPTION:

GATCTTTTAC ACCACATCAC AGTGANCACA CTGGGGAGAC GTGCTTTTTT GGNAAACTCA 60
AAGGTGCTAG CTCCTGATT CAAAGAAATA TTTCTCATGT TTGTTTCATC TAGTTTATAT 120
TTNCATTAA ATCCCTTTAG GTTAAGTTTA AGCTTTTAA AAGTTAGTTT TGAGAATTGA 180
GACACAATAC TAATACTGTA GGAATTGGTG AGGCTTGACT TAAAACTTTC TTTGTACTGT 240
GATTTCCTTT TGGGTGTATT TTGCTAAGTG AACCTTGTTA AATNTTNGT TAACTAAATN 300
TTTTCCTTAA AATAAAGACT TTTTCACAAA 330

SEQ ID NO:2295

SEQUENCE LENGTH:352

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02653

SEQUENCE DESCRIPTION:

GATCCTATGG ATTTTCCCGG CTGGTTGCCA CTA CTNTACA ACATT CANAG CCCACATCCA 60

TCTGTGCCAT TAAGCTTTTT TGAGACATGA GAGATGCCTC TTCCTGCTG TATGACATGC 120
 ATTTGGGAAG TTGGAAAGAA ATGACAAAAT CAGGGAGAAA ACATCCAAGC TTCTTACCTG 180
 TAGATAGAAT CAGCCCTCAC TTGGTGCTTA TTACCAGTTA TTCANGGACA ATAACAACAA 240
 CAAAATTAGT AGACATNCAT GANGCACATN TTTAGGNCCA AAGGNTAGCA TCAACTTGTA 300
 TTTNGAAGGG ACTGTAGTTT TCGGCATTTT ATGGCNATTT TTTATNAAAG TN 352

SEQ ID NO:2296

SEQUENCE LENGTH:351

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02654

SEQUENCE DESCRIPTION:

GATCGCAGCC GCTTCGCACG CCGCATCACC CAGGCCCAGG AGGAGCTGAG CCCCTGCCTC 60
 ACCCTGTCTG CCCGGGCCAG AGCCTGGGCA CGCCTCAGGA ACCCACCTTT AGCCCCCATC 120
 CCTGCCCTCA CCCAGACCTT GNCCTCCTCC TCTGTCCCTT CGTCCCCAGT NCAGACCACG 180
 CCCTTGAGCC AAGCTGTGGC CACACCTTCC CGCTCGTNTG CTGCTGCAGC GGCTGCCCTG 240
 GACCTCAGTG GGAGGCGTGG CTGAGACCAA CTGGTTTGCC TATAATTTAT TAACTATTTA 300
 TTTTTCTAA GTGTGGGTTT ATATAAGGAA TAAAGGCTTT TGATTGTAA A 351

SEQ ID NO:2297

SEQUENCE LENGTH:357

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02656

SEQUENCE DESCRIPTION:

GATCCCCGTT CCTGACATCA CAGCAGCCTC CAACACAAGG CTCCAAGACC TAGGCTCATG 60
 GACGAGATGG GAAGGCACAG GGAGAAGGGA TAACCCTACA CCCAGACCCC AGGCTGGACA 120
 TGCTGACTGT CCTNTCGNGT NCAGCCNGTG GCCTTGCGTT TTCTAGCCTA TTTACCTGCA 180
 GGCTGAGCCA CTNTCTTCCC TTTCCCAGC ATCACTCCCC AAGGAAGAGC CAATGTTTTN 240
 CACCNATAAT NCTNTCTGCC GANCCCTAGT TCCCTCTGCT CAGCCAAGGT TTGTTATCAG 300
 GTTTTCAGGG GCCATGGGTT CACATTAAGG ATTTAAAGG GTAGTAATTT GGGGAAA 357

SEQ ID NO:2298

SEQUENCE LENGTH:344

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02657

SEQUENCE DESCRIPTION:

GATCAAAATTT NAGTGGCTTT GGACAGAAAA GAAGGCTCTG GATTAAAGCG GGTGGTCACC 60
 TGTGAGACCA GGTCTACCTT GGGACTGTTA TTAACTGAA TCAGTTATTT CCTTGAAATT 120
 TCACAGTAGT GGGTGGGCCT GTTTAAAGGC TCTGACAGAT ACCACGAAAC ATGANGCNCG 180
 NNGAACTACA AGACCCCGG GGTCTTTCTG AGTGCAAGGC TGAAATGGAC AAGGGCTCCT 240
 CACGGGGGTG GAGGGAGCCG GAGCCTGCCT TGTGTTCTTT TTTGACTTG TGACATTTTT 300
 CAAACACATA ATTAAAAGGA CTTATGCTCT GCTGTCTCAG GAAA 344

EP 0 679 716 A1

SEQ ID NO:2299

SEQUENCE LENGTH:462

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02658

SEQUENCE DESCRIPTION:

GATCTGGTCC CTGAGAAACA TATTGTGATG AAGTGGAGGT TAAATCTTG GCCAGAGGGA 60
 CACTTTGCCA CCATCACCTT GACCTTCATC GACAAGAACG GAGAGACTNA GCTGTGCATG 120
 GANGGTCGAG GCATCCCTGC TCCTGAGGAA GAGCGGACAC GACAGGGCTG GCAGCGGTAC 180
 TACTTTGAGG GCATTAAACA GACCTTTGGC TATGGCGCAC GCTTATTTTA GGGCCAGCGG 240
 CAGGGGACTC CAGCCTGCTG GACACTTCAN GTCCAGCTCT CTCCTGACTG GGGCTTNCGA 300
 CTCACAGGAT TGCATCGNCC CAGCTGCTAA CTNNGGGCCG GGGGCCCNTC CCTTNCACAA 360
 TATACCTTGG GTTNTGTCAT GTTTCCTNN CTGGGTTGGG GTTCAGAGGG GCAATTCNN 420
 CTTTAAATGG TGTACATATN NCTANATANN CATAATTTTA AA 462

SEQ ID NO:2300

SEQUENCE LENGTH:341

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02659

SEQUENCE DESCRIPTION:

GATCAACTTC CCACAACTG AGGAATGAAT TCCACGAGCC TGTCTGAAA ATNTGGACGT 60
 AAGACAAACA CGTGCTCGTC CTTTAATGGA GTTCACCAGC ACACTTGTTA ACCAGTCCTG 120
 TTTGCTTTTC TCTTTTTTTG TCGTAATAA AGTCAACTGA CCAAGTGACC ATGAAAAGGG 180
 GCTGCTGGG GCTCCTGTTT TTNAGCTGCT GTTCTTCAGC TCCGACCATG TTGCTGTGTG 240
 ATTATCTCAA TTGGNTTTAA TTGAGGCAGA AACTGAAGCT CTACCAATGA ACTGTTAGAA 300
 ACAAGACACA CTNTNGTATT AAAATTGCTT GCAGTAACAA A 341

SEQ ID NO:2301

SEQUENCE LENGTH:339

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02660

SEQUENCE DESCRIPTION:

GATCNGTGGC AAAACCAAGT GTGGTCTTTC AGCTTCAGTG TGTTAGCATC CCAGCACCTG 60
 GGATGGGGTT TGTGGGCAAG TTGATTTTGC CACACTGTAG GGCCAGGTN NNCCCATTCG 120
 CACCGTGAAG CCAAAATNCTA GCCCAAGTCT GGTAGAGCAG TCGGGCAGCT AGTTTTCCGG 180
 GGAGGATGAT GTGGTGGGAC AGAGGACCTC AGTGGCCTAT TACGGAGCCC TCTTCCCAGA 240
 CTAAATTCAT AGCCGAGAGC TCGGGGGGAT GGTAGAGTTA AAATTTAAAA TAATTTTCTA 300
 AATTCTGTAT TTGGATATTA GTGTTTAAAGT GGTAAATTN 339

SEQ ID NO:2302

SEQUENCE LENGTH:441

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02661

SEQUENCE DESCRIPTION:

5 GATCCAGGGG CTGCTCTGG CCTCTTAGGG AGCAGAGAGC AGAACTCCGC AGCCCAGCCC 60
 AGAGGAGTGT CACCTCCCAC CTTTGGGAGAG GAATCCTTCC CTCCCCTGGA CAAAGTTGCT 120
 GACAAGCCCC TGAAGTGGCC TCTCCATATT CCAGCTGAGC CTGAATCTGA CTCTTGAGGG 180
 TTGGGGCTGC ACTTATTTAT TGCGGGGAGA CAGCTCTCTC TCCCACCTNC TCCCAGATG 240
 GGAGGAGAGC CTGAGGCCCA AGCAGGACCC GGGGGTTCCA GCCCCTAGCT GCTCTGGAGT 300
 10 GGGGGAGGTT GGTGGACCAT GGGAGTNCCT GGTGCTGCCC CTNAAGGTGG GACCCAGGCG 360
 TTNTCAAGCT GTACCCTTTT NCCGATGGAA TTTGTGTTTT TGAANATNNG TGTCTNNTAC 420
 TANTNTTTT AAATAAAAAA N 441

SEQ ID NO:2303

15 SEQUENCE LENGTH:336

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02662

SEQUENCE DESCRIPTION:

20 GATCATGGCA TCCAAGACCA GAGTCTCAGA ACTCATTAAG AAACAGTTTA CTTGGAATGG 60
 AGAATACCCA TCTGTAATAC AGGTCTGTG ATTTTCATTCA TCTCAAATTA TTTTGAATTC 120
 TTCCCAAATG GCTGCTGGAT TTAGGTGGTA ATAGGGGCTG TGGGCCATAA ATCTGAAGCC 180
 TTGAGGAACC TTGGGTCTGG AGAGCCATGA AGAGGGAAGG AAAAGAGGGC AAGTCCTGAA 240
 25 CCTAACCAAT GACCTGATGG ATTGCTCGAC CAAGNCACAG AAGTGAAGTC TGTGTCTGTG 300
 CACTTTCAC AGACTGGNGT TTTTGGTNCT GAATAN 336

SEQ ID NO:2304

30 SEQUENCE LENGTH:363

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02663

SEQUENCE DESCRIPTION:

35 GATCAAGTNA CTTCTGCCCC CCTGGACACA ACACCAAAAA GGCTTCTAAA NACGGGTGTN 60
 AGTCTTTTNA GCAACCCGGT CCAGTACTGG GAGATACAGC CATCCACCTT CANATGTGTC 120
 TACGTGCGCT CTGCCATTCA ACTCGGAAAC TATAAGTAAT TCTNAAGAAA GCCCTCATT 180
 TTATAACCTG GCAAAATCTT GTTAATGTCA TTGCTAAAAA ATAAATAAAA GCTAGATACT 240
 40 GGNAACCTAA CTGCAATGTG GATGTTTTAC CCACATGGCT TTATTATGCA TAANGCCAAT 300
 ATTTCTGTG TTAAGTAATN GCCTTCAATT NNNAAGNTAA TTTTGGCCTG NCCCANAAAT 360
 AAA 363

SEQ ID NO:2305

45 SEQUENCE LENGTH:232

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02664

SEQUENCE DESCRIPTION:

50 GATCAGAGTT CCTCCTACTT ACAACCCAGG GTGTGAACAT GTNCTCCATT TTCAAGCTGG 60

55

AAGAAGTGAG CAGTGTGGA GTGAGGGCTG TAAGGCAGGC CCATTGAGAG CTATGGTGCT 120
 TGCTGGTGNC TGCCACCTTC AAGTTCCTGA CCTGGGCATG ACATCCTTN TTTAATGAT 180
 GCCATGGCAA CTTAGAGATT GCATTTTAT TAAAGCATT CCTACCAGCA AA 232

5
 SEQ ID NO:2306
 SEQUENCE LENGTH:330
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 10
 CLONE:HUMGS02665

SEQUENCE DESCRIPTION:
 GATCTTAAGT ATAATTACAA GGAAGAAGTG AAGAAGAATA TTCTCTTAGA AGAGAAGGTA 60
 AAAAACTTT CAGAACAATT GGGAGTTGAA TTAAGTAGCC CTGTTGCTGC TTCTGAAGAG 120
 15
 TTTGAAGATG AAGAAGAAAG NNCTGTTAAT TTCCCCATT ACTAAAGTC ACCTATAAAC 180
 TTTGTTTCAT TTAAGTATTT ATTAAGTTTA TAAGTTAAAT ATACTTGGA ATAAGCAGTT 240
 CTCGGAAGT TAGTATTTCC TTCTACTAC CTGGGTACCT TTATACTTAG ATTGGAATTC 300
 TTAATAAATA GAATTATATG AAATTTTCAN 330

20
 SEQ ID NO:2307
 SEQUENCE LENGTH:328
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25
 CLONE:HUMGS02666

SEQUENCE DESCRIPTION:
 GATCGACTTA CTCACATGA GACAATTCAT ACTGGTGTGA ACCACANAAA TGCAAAGAAT 60
 GTGGTAAGGC CTTAGTCAT TGCTATCAAC TTAGTCAACA TCAAAGATT CACCATGGTG 120
 30
 AGAGACTCTT AATGTAATGA GAGGGAAGC CTTAGCCAT GGAACATTT TACTGTTGTC 180
 ACTATTATNA TGCTATAGTG AAGATTAAAC TAGTTAATAT AGAATATAA TACTTGGA 240
 GGCATCTGGC ACATCGTATT TGCTTACTAA ATACATTATT TTTATGATAA TTGTTAGAAT 300
 TACTAAAAAT AAATCTTATA GAAGGAAA 328

35
 SEQ ID NO:2308
 SEQUENCE LENGTH:327
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40
 CLONE:HUMGS02667

SEQUENCE DESCRIPTION:
 GATCTCAGGT ATCAGACCAC TGAGCAACCC ACCGCCAGNC TGCAGGCTTT CAGAGGCCCA 60
 CCTGGGCCCA GCGTGGCTG CCCCAGGGTG GGCTCCAGC GCAACTGCAG GCATCCTCTA 120
 GTGGGGCTC TGTAACCCT AGCAGATGGT GTGACCCCT CTGAGATGAG GAAGCTGGTG 180
 45
 ACCTNNGACT GAGCAGCAGC CTATGGGCTC CGGGTCAAGT GCTATTCCA GCGGATGCCC 240
 TTCCCTTGC GNCAGTCCCT CCTTNCCTGA GTGTCCAGGC GCNANTGNAA AACAGNAACC 300
 CTAGGGTCTG GAACTACTT TTTTNN 327

50
 SEQ ID NO:2309
 SEQUENCE LENGTH:326

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02668

SEQUENCE DESCRIPTION:

GATCCAGTTG TTATAGTGAA CTCATGGTAA TGGTTTGTGA GAACAATAGA GATTTTNATT 60
TCTATGTAGA TGAGTTGGTA TGAGAAATATA TGGAAATTTT AAGGGACTGT TTAATCTTT 120
GATTTGTAGA CTATTAAATA TACCGTATGC ATAAAGTAAG CCTTTAGCTC TAAGGTAAAG 180
ACGACACGTT TTCGGTTTGT GACTACAAAT AGGTTAAAAA TAGATTTTAA TTTTATTAAA 240
AATATAATTT AATGCAGGTT GTTGAAGCA TCTGTCTTCA TATGATGGCA TTAGAACACC 300
TTGGTATAAT AAAAAGTTAC CGTAAA 326

SEQ ID NO:2310

SEQUENCE LENGTH:322

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02669

SEQUENCE DESCRIPTION:

GATCAAGAAG GAGCTAGAGA CCATTTCAAA GAAAAAAAAAT GCTTTATAGA GTTTTAAGTA 60
TGACTTAGAT GGGTCCAGGC AAATAAATA AAAAGAAGTG AAGGCAACAT GTATCGTCTG 120
GCAGAACTAA ATCTGGAGT GGGGTGAGGG ATGAAAGACT ACATATTGGG TACAGTGTA 180
ACTGCTCGGG TGATGGGTGC GCTAAAGTCG CAGAAATCAC TAAAGAACTC ATCCATGTAA 240
CCAAACACCA CCTGTACCCC AAAAACGAAA TAAAAAACA AAACCTTGGG GCCCATCCCC 300
CCTAGGAATG GACTACTGTA AA 322

SEQ ID NO:2311

SEQUENCE LENGTH:321

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02670

SEQUENCE DESCRIPTION:

GATCTAAATT ACCTGGGGT TCGCATATGT CTATGAAATN CTGTGATAAN GTTTTCAAT 60
ACATTGNTTC ACTGGCGTCT GTTTTCANTT TATACTTTTA ATAATCATC ACTGGTGGTA 120
CTTTATCTTG AAAAGTAATA TTTTNATAT TTTANCATTG GACAGTGTTA GCCAGTTGTA 180
ATGATGTATC AGANGTAAAG AAAAACCCAT TAAAGTTATA GCTAATAGAT GCTGTTGGGG 240
GTAAATTAA TAGTAAANTA ATCCAATATA GCACTNTNNA TGATTTNTTA TATAAANGTC 300
AACTGGTACA TTTCATTGAG N 321

SEQ ID NO:2312

SEQUENCE LENGTH:319

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02672

SEQUENCE DESCRIPTION:

GATCGAAGGG TTTTATAGAGA ATGTNTTCA AAACCATGCC TGGTATTTTC AACCATAAAA 60
GAAGTTTCAG TTGTCCTTAA ATTTGTATAA CGGTTTAATT CTGTCTTGT CATTTTGAGT 120

ATTTTAAAA AATATGTCGT AGAATTCCTT CGAAAGGCCT TCAGACACAT GCTATGTTCT 180
 GTCTTCCCAA ACCCAGTCTC CTCTCCATTT TAGCCCAGTG TTTCTTTGA GGACCCCTTA 240
 ATCTTGCTTT CTTTAGAAAT TTTACCCAAT TGGATTGGAA TGCAGAGGTC TCCAAACTGA 300
 TTAATATTT GAAGGGAAA 319

SEQ ID NO:2313

SEQUENCE LENGTH:327

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02673

SEQUENCE DESCRIPTION:

GATCGACAAA ACTTTGAACG AGGCTGACTG TGCCACCGTC CCGCCAGCCA TTCGCTCCTA 60
 CTGATGAGAC AAGATGTGGT GATGACAGAN TCAGCTTTTG TAATTATGTA TAATAGCTCA 120
 TGCATGTTTC CATGTCATAA CTGTNTTCAT ACGCTTCTGC ACTCTGGGGA AGAAGGAGTA 180
 CATTGAAGGG AGATTGGCAC CTAGTGCGTG GGAGCTTGCC AGGAACCCAG TGGCCAGGGA 240
 GCGTGGCACT TACCNGNGGT CCCTTGCTTC ATTCTTGTA GATGATAAAA CTGGGCACAG 300
 CTCTTAAATA AAATATAAAT GANCAAA 327

SEQ ID NO:2314

SEQUENCE LENGTH:313

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02675

SEQUENCE DESCRIPTION:

GATCAACCAC ATGCACATCC TTACTIONAGA ATCCGTCTT TCATTTCAAC ATTATAGCAA 60
 GCTATGATTT TNATATATAA ATATTATATA AATNANGTAT AANACATTAA AAGTTAACTA 120
 TGTAAGATAT TATNTCTGAA ACAATTAGC TATATCCACT ATGATTATAA ACTGTGTCTC 180
 GACCTGTGTT ATNTACANAA GCTGCTTAAA AAAGCATTGA GTTAATTTN TTAATATCA 240
 ACTAAATAT CATAGTTCTG TGGNNGACAT TGTGTTATAA TGANATAACT GCAACTAGAG 300
 AAANCTGTAT AAN 313

SEQ ID NO:2315

SEQUENCE LENGTH:365

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02676

SEQUENCE DESCRIPTION:

GATCGAGGAC ATAAGGAACT AGTCACAGTG TTGCTGCAAC ATAGAGCTGA CATTAACTGT 60
 NAGGACAATG AAGGCCAAAC AGCTCTACAT TATGCCTCTG CCTGTAAGTT TCTGGATATT 120
 GTAGAGCTGC TGCTCCAGTC TGGTGCTGAC CCCACTCTCC GAGACCAGGA TGGCTGCCTG 180
 CCAGAGGAGG TGACAGGCTG CAAAACAGTT TCITTGGTGC TGCAGCGGCA CACAACTGGC 240
 AAGGCTTAAT CAAAAGACTG GAAAACAGCA GTCTGTAATA GCATAAGGCT TCCATTATGA 300
 AAGAAAATA CAGAAATAAT ACTTCTTTTC CACCCGTCTT TGGTATGTAT TGGCTTATAA 360
 AATTN 365

SEQ ID NO:2316

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02677

SEQUENCE DESCRIPTION:

GATCCTGGAG CTGGCTGGCA ACGCGTGCCT NACAACAAGA AGACCAGGAT AATCCCCGC 60
 CACCTGCAGC TCGCCATCCG CAACGACGAG GAGTTAAACA AGCTGCTGGG CAAAGTGACC 120
 ATCGCTTAGG GCGGCGTCCT GCCCAACATC CAGGCCGTGC TGCTGCCCAA GAAGACGGAG 180
 AGTCAGAGA CGAAGAGCAA ATNACCCTGA CGCCGNCCTC AGGGAGCTGN CTNCGNCANA 240
 TAAGGCCCTT TTNATGGTCG TCCCGCAATG CTTTGAATG TGCTGGNTGT CATGGAGGGC 300
 CGGTGACN 308

SEQ ID NO:2317

SEQUENCE LENGTH:306

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02678

SEQUENCE DESCRIPTION:

GATCTAGATA ACTCATGACA TTTTATTGA CCAACATAGC ACATGATGAG ATATCAAGGT 60
 AATTAAAATA GCATGCTTGA AAAAAAATA CGTAATCTGT TTCACCTGTA ACTGTTTAAG 120
 CCAATAAACT TTTCAAAT TATGTAATGT GGGGCTTTTA TGTAGCACTT TACGTTTCA 180
 TGCTGCTTAT TGTTTTATTC TACTGAAAAA AATGANNTTC AAGATTCTCA ACTTNTTAA 240
 TTTCAAAAAT NGTTTATGGT TTTGACTATA GGAATACAAA ANTCCTATT TNGGGNGAAT 300
 AAGAAA 306

SEQ ID NO:2318

SEQUENCE LENGTH:305

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02679

SEQUENCE DESCRIPTION:

GATCCCTGG CTCCCAGCA CACATTCCTT TGAAATAAGG TTTCAATATA CATCTACATA 60
 CTATATATAT ATTTGGCAAC TTGTATTGT GTGTATGTAT ATATATATAT GTTTATGTAT 120
 ATATGTGATT CTGATAAAT AGACATTGCT ATTCTGTTTT TTATATGTAA AAACAAAACA 180
 AGAAAAAATA GAGAATTCTA CATACTAAAT CTCTCTCCTT TTTAATTTT AATATTTGTN 240
 ATCATTAT TATTGGTGCT ACTGTTTATC CGTAATAATT GTGGGGAAAA GATATTAACA 300
 TCAAA 305

SEQ ID NO:2319

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02680

SEQUENCE DESCRIPTION:

5 GATCGAAATC ACTATAATTT TAACCCTNGT GATTGGAATG AATATGGTTT GTGCTGGAAG 60
 CTCCGAGGTG GAAGAGACTC GTGCAATGGA GATTCTGGAA GCCCTTTGTT GTGCGAGGGT 120
 GTTTTCCGAG GGGTCACTTC CTTTGGCCTT GAAAATAAAT GCGGAGACCC TCGTGGGCCT 180
 GGTGTCTATA TTCTTCTCTC AAAGAAACAC CTCAACTGGA TAATTATGAC TATCAAGGGA 240
 GCAGTTTAAA TAACCGTTTC CTNTCATTTA CTGTGGCTTC TTAATCTTTT CACAAATAAA 300
 ATN 303

10 SEQ ID NO:2320
 SEQUENCE LENGTH:302
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02681

15 SEQUENCE DESCRIPTION:
 GATCCCTGCT GAATCCACAG GCCAAAATAG TCAATGTAAC TGCAAATCTA ATTCATCCT 60
 CCTTTCCTGA GGCCAACCTCA GGAAATNAAA GGACGATTCT AATTCCACT GCGGTACTT 120
 TTGTGGATGT GTCTGCACCT GCAGAGGCAG GCTTCANAGC TCCACCAGCC ATCAATGCCA 180
 20 GGCTGCCCTT TAACCTCTTC TTCCCGTTTG TTGACAATG CTCAGATGCA TCAGTTCCTT 240
 AATATACAGC TGAAATTGA AACTGTACA TTCGGTGAGA TTAATTTTA TATACAACTA 300
 AA 302

25 SEQ ID NO:2321
 SEQUENCE LENGTH:301
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02682

30 SEQUENCE DESCRIPTION:
 GATCCAATTA AAAAAAATTA AAACCAATTT AAAAAAAAAA AGANCACAGG AGATTCCAGT 60
 CTACTTGAGT TAGCATAATA CAGAAGTCCC CTCTACTTNA ACTTTTACAA AAAAGTAACC 120
 TGANCTAATC TGATGTNAAC CAATGTATTN ATTTCTGTGG TTCTGTTTCC TTGTNCCAAT 180
 TTGACAAAAC CCACTGTTCT TGTATTGTAT TGCCAGGGG GAGCTATCAC TGTACTTGTA 240
 35 GAGTGGTGCT GCTTAAATTC ATAAATCACA ANTAAAAGCC AATTAGCTCT ATAACANAA 300
 A 301

40 SEQ ID NO:2322
 SEQUENCE LENGTH:345
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02684

45 SEQUENCE DESCRIPTION:
 GATCAAGCGG AAAGAGTTTA AGTGTCTAAC AAACCTAAAG CTAAGTGTAG ACCTAAAAAG 60
 TCAGTGTGTG ACATAGCATA AAAACTCTGC AGAGAAGTAT TCCCAATAAG GAAATAGCAT 120
 TGAAATGTTA AATACAATTN CTGAAAGTAA TGTTTTTTTN CTATCATCTG GTATACCATT 180
 GCTTTATTTT NATAAATNAT TTCCTCATTG CCATTGGAAT AGATATCTCA GATTGTGTAG 240
 50 ATATGCTATT TAAATAATTT ANCAGGAAAT ACTGCCTGTA GAGTTAGTAT TTCTATTNN 300
 ATATAANGTT TGCACACTGA ATTGAAGAAT TGTTGGTTTT TTCCN 345

55

EP 0 679 716 A1

SEQ ID NO:2323

SEQUENCE LENGTH:299

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02685

SEQUENCE DESCRIPTION:

GATCTTTTCT AATATGGTAT TACAATGAAA AGAATAAAGA GAAGATTGA ATTTNCAGTT 60
 TCATTTTCAA AAACATTTTA CCAAAACAAA TGGAGAAGAA ACATCCAAAA GCACATTTCA 120
 TTTCTCCAAA CTGTGTGTTT TAAATTATAG TTATAAATNG TAAGGTAATT TAAATTGTC 180
 CCTCGTATTA TTNCTCCACG CCTGTTTTAG TNTNNGGTCT CCTAAGCTTT TCTCTCATAG 240
 CGTAGACCTA GGGGAAGGGAT GGGGAAGATTG CCCAGTCCCC GATGGCTGCG CACACAGGN 299

SEQ ID NO:2324

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02686

SEQUENCE DESCRIPTION:

GATCCCTCTG TACAGGCTGG ATGGAAGGGG CCCTCCACAC TTCCTGGGAG GTCAGAGACA 60
 AACTGTTTCA GAGAGTCAGA TGGACTTCCC AAGACTTGTT GAGAGATGTG ACATGGTTCT 120
 TGGATTTCCT CTGTAGCAGC CTCCTGGACT TCCTGAGGAC TCGACATTGT CCACAGATGT 180
 ACTGGCCATT ACATGAAACA AGAAACCAAG CATCTTTGCT GTTGTTAATT ATTATATGTG 240
 CCATTGTTAC AGGAGATTAT AGGCTAGTCT GTAATAAATT ATCTTATAGC AGCCAAA 297

SEQ ID NO:2325

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02687

SEQUENCE DESCRIPTION:

GATCAGCAGC CGAGAAAAGT ACATCAACAA TCAGCTTGAG AATTTGGTTC AAGAATATCG 60
 TGCAGCTCAA GCCCAGCTGA GTGAGGCAAA GNAGCGATAC CAGCAGGGAA ATGGAGGNGT 120
 GACGGAAAAG ACCAGACTCC TCTCTGAGGT TNNGGAAGAA TTAGAAAAGG TAAACAAGA 180
 AATGGAAGAA AAGGGCAGCA GCATGACTGA TGGTGCTCCT TTGGTGAAGA TTAANCNNNG 240
 CTTNNCANAA CTGAAGCAAG AANCTGTAGN GATGGACATT AGANTTGGCA TTGTGGN 297

SEQ ID NO:2326

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02688

SEQUENCE DESCRIPTION:

GATCCNACTT TAGAAGCCTA CTTTNTAACC AAGGAGCTCA ATTTTTTTTT TAAAGCTTTA 60
 CTAATCTACC ANAGCATTGT AGATATTTTT TTTTAACATC TATTGTTTAA AATAGATNAT 120

TATAACGGGG CAGAGAACTT TTTTTCTCT GCAAGAATGT TACATATTGT ATAGATAAAT 180
NAGTGNCATT TCATACCATG TATATATAGA GATGTNCTAT AAGTGTGAGA AAGTATATNC 240
TTTAATAGAT ACTGTAATTA TAAGATATTT TAAATTAAAT ATTTTTTTGT AAATAAA 297

5
SEQ ID NO:2327
SEQUENCE LENGTH:324
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10
CLONE:HUMGS02689
SEQUENCE DESCRIPTION:
GATCCTATGT CTGTCTGTCC ACCACGAGAT GGGAGGAGGA GAAAAAGCGG TACGATGCCT 60
TCCTGACCTC ACCGGCCTCC CCAAGGGTGC CGGCACTCTG GGTGGACTCA CGGCTGCTGG 120
15
GCCCCACGTC AAAGGTCAAG TAAGACGTAG GTCAAGTCCT ACGTCGGGGC CCAGACATCC 180
TGGGGTCCTG GTCTGTNAGA CAGGCTGCCC TAGAGCCCCA CCCAGTCCGG GGGGGNTGGN 240
GAGCAGTTC AAGACCACCN CACCNCTTTT TGTAATNTT GTTCATTNTA ANTCAAATAC 300
AGCGTNTTTT TCANTTCTGG GAAA 324

20
SEQ ID NO:2328
SEQUENCE LENGTH:291
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

25
CLONE:HUMGS02690
SEQUENCE DESCRIPTION:
GATCTGCAGG GGTCTGGGAG TCAGGCCCGG CCTATTGCTT GGGTCTCTCT CTATTTATAT 60
ATCTAAGTTC ACAGTGTTTC TTATCCCCC TAAGCTTCTA GAGGCTCATG GCCCTGTAGT 120
TAGGCCTGGC TCATTCTGCA CCTTCCAGG GAGGTGGAAG GACCCTGTGC CCTCCTTCCC 180
30
AATCTTCTTT TTCAGGCTCG CCAAGGCCTA GGACCTATGT TGTAATTTA CTTTTATTT 240
CTAAAGTTGT AGTGAAGCTC TCACCCATAA TAAAGGTTGT GAATGTTCAA A 291

35
SEQ ID NO:2329
SEQUENCE LENGTH:290
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02691

40
SEQUENCE DESCRIPTION:
GATCTAGAAT CTCTTTATGT TCTCCAGAGG AAGGTGGAAG AAACCATGGG CAGGAGTAGG 60
AATTGAGTGA TAAACAATTG GGCTAATGAA GAAAACTTCT CTTATTGTTT AGTTCATCCA 120
GATTATACT TCAATGGGAC ACTTTAGACC ATTAGACAAT TGACACTGGA TTAACAAAT 180
TCACATAATG CCAAATACAC AATGTATTTA TAGCAACGTA TANTTTGCAA AGATGGNCTT 240
45
TANAAGATGC TGTGTAGCTA ANCTGAANTA ATTCATTTC TTATTATTTN 290

50
SEQ ID NO:2330
SEQUENCE LENGTH:231
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

CLONE:HUMGS02692

SEQUENCE DESCRIPTION:

GATCACTCCG CTTNTCCTG GGCTCCCGTA GCACACTATA ACATCTGCTG AAGTGTGCT 60
 GTTGCAACCAT ACTTTCTTGT ACATTTGTGT CTCCCTTCCC AACTAGACTG TAAGTGCCTT 120
 GCGGTCAGGG ACTGAATCTT GCCCGTTTAT GTATGCTCCA TGNNGGNCC ATCATCCTGC 180
 TTGGNGCAAG TAGGCAGNG CTCAATAAAT GTTTGTTGCA TGNNGGNAA A 231

SEQ ID NO:2331

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02693

SEQUENCE DESCRIPTION:

GATCGCCTAC AAGCCAGCCC CTGGCACCTG CTGCTACATC ATGAAGATAG CTGCAGAGAG 60
 CATCCCCAGT CTTGAGGCTC TCAATAGAAA AGNCCACAAC TTCCAGATNG AATGCTCTCT 120
 GCAGGCCAAG CCCGCAGTGC CTACGTCTAA GCTGGGCCAG GCAGAGGGGC GAGATGCAGG 180
 CTCAGACCCC TCCGGAGGGG ACCCGGNCTT CCTGGGCATG GCCGTGAACA CCCTGTNTGG 240
 CGAGGTGCCG CTCTACTACA TCTAGGACGN CTCCGGGTCA TGTGN 285

SEQ ID NO:2332

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02694

SEQUENCE DESCRIPTION:

GATCTAGAGG TTCCANTGCT ATNCTCTCTT CTTGTCTGAG AGCCAGGACC CTGGGGGAAA 60
 TAACGGGCAA AAAAGCACTT TNAAGACAGA TATAGTGGGA ATTNATAAAC GACTTGATAG 120
 AAACAGAAAT GAACTGTTTT ATTNATNCT CTGAGGACTC TGCTCATCAC CCANTAGTAC 180
 CATTTCTTTT CTCAGAATGG ATTCTTTCCC CTATCTATCT AATCATTAGA GATGTAGCTA 240
 NGAAATTACA TGTATGCATA TGTNTAATAT GTATATGTNT ATGN 285

SEQ ID NO:2333

SEQUENCE LENGTH:283

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02695

SEQUENCE DESCRIPTION:

GATCTTAAAG CTTTGAGCAC CTGCCATTTT GCCTTGCATC GTTTCCTCG TCATGCATTT 60
 CCACATATCC ACAAACACAG AACGACTTTA GACAAGCACA TGTTACACCT GTGTTGCCAC 120
 AAGCAGTCAT TCTTGACGGC TCCAGTTTTT ATTTGACACT TGAGTTTAGT TTTCTCTTTT 180
 ATAAACCCAG TGAATCCTG CACTGGCATT TGGATGTGTG TTAATGCTAT TTGTTTGTG 240
 TTAAGGTAA AACCTTTCTC AGTTTGAAC TGTATTCTCT AAA 283

SEQ ID NO:2334

SEQUENCE LENGTH:283

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02696

SEQUENCE DESCRIPTION:

GATCTATTAA AAAGGTTAAG AGGCCAGGTT ACCCACCANT CCTTGCACTG TNCTGACACT 60
 TTCCCCAGGA GGAAACAAG TACAAAGGTT ACGGTGGAGG CATAAGTAGA AGAGATTGTN 120
 AAGAAGGGTA ATTCATGTNT CTTTGCTCTT NCTGCTTTAT GCCTCANTTT GGTTTAAAAA 180
 CTTCTNTACT GGCAAATGGT GGTATTCACT GTGGGATAGT GTCATAACTA ATTTGACAAT 240
 TTATTAATGA TAAAATAACA ATAAATGTCT AGCTTTTACA AAA 283

SEQ ID NO:2335

SEQUENCE LENGTH:283

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02697

SEQUENCE DESCRIPTION:

GATCACAAAA AAATCAGTCT TTAAGCATT GCTTGGTAAG GTTCTTAAAN ATNAGGTTTA 60
 TAATACAACC ATCTGTAATG TATCTNCTGN TTGANCTTGT GGGCCATACA ATTCATTAAAC 120
 TAGATGNATA CATTGTGGAC AGCATCCTCA CTACCCCTCT CTACTIONCTC ACAAAGAACC 180
 ATGATACACT GGAATGTTTT TNTNTGGAAT CCTCTTTCTA CTCTTGATT AAAATTTTNC 240
 CCCACTTCAT GATTATATNC AAAATAAACA ACTACATCAT AAA 283

SEQ ID NO:2336

SEQUENCE LENGTH:282

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02698

SEQUENCE DESCRIPTION:

GATCAGCTTG CAGAGTCTTG CTTTtaggtt AGATACAAAC AAAGTAAATC ATAGTTGGTG 60
 TAAATCCAGC AAAAAACAGC TGGCTTGGGA ATGGAGAACA CTACAATTCA AATTGAAAGT 120
 ATATTCAGAA GAAAACTTTG GAATTAGCTT TACATTTGTT TGTAATCTA AACAAATNTG 180
 CAAAATTGGT CAAAATGTAA GTNTATNGCA TTTTAAAGA TTANTGGTTC CTTTATGTG 240
 CTGATTTCTT TGTATTCTGT TCTCTGCATT CATCATTCAG GN 282

SEQ ID NO:2337

SEQUENCE LENGTH:284

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02699

SEQUENCE DESCRIPTION:

GATCTGTACC ACACCTTCGG GCCAGCTGTC CTCCTGCTGA TGTCCTCAG TGTCTACAAG 60
 GCCTTTGTTA TGGAGACCTT CGTCCACCTC TGCTCGCTGG GCAGTTGGGC AGCTCTACTG 120
 GCCCAGCAG TGGTAACGGG GCTGCTGGCC CTCAGCACTT TGGCCCTGTA TGTCGCCGTT 180
 GTCAATGTGC ACTCCTAGGC TTGGTGTCTC AGACATTTGA TGTACCTTTT CCCTGNCTCG 240
 NTCCAGGTTT TTAGTGAAGT AAACAGGTAT TTTGAAAAGT TAAA 284

SEQ ID NO:2338

SEQUENCE LENGTH:280

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02700

SEQUENCE DESCRIPTION:

GATCAACGAC AGCCTCCAGT TTCCACTTNG TGAGAGAACA AAGGAACCGG GGCATGCTCA 60
 NCTATGGCTG CAAGCCNTTC AAGTGAAGCT GGGCACTTAC CCCCTTNATT CCATTCTCCT 120
 CAGGATAACA GATTAAAAAT CCAGAAAGTGT GCACCTGTNG TNTATTCAGG AGATTNTCGT 180
 TNTGCATAAA GAGACCACTT GAGGCCCTGT AAGCAAAGAC TAATTNGGTC TNAGTCAAAA 240
 TCTTGGAAT CTGATNAACT AACACACTCA AATGAAACTN 280

SEQ ID NO:2339

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02701

SEQUENCE DESCRIPTION:

GATCTGGAGC AGGAAGGCCT CGAGGCACAC AGGGGCTGCT GGCCGGCGAG TGGGCCCCAC 60
 CCCTCTGGGA GCTGGGCAGC CTCTTCCAGG CTTTCGTGAA GAGGGAGAGC CAGGCTTATG 120
 CGTAANTTCA TAGCTTCTNC TGGCCTGGGG TGGACCCAGG ACCCCTGGGG CCTGGGTGCC 180
 CTGAGTGGTG GTAAAGTGGA GCAATCCCTT NACGCTCCTT GNCCATGTTT TNAGCGGNCA 240
 GNTTGNTTTT NNCCTTNAAT AAATNTGCTT TATTTNCTCT TCAAA 285

SEQ ID NO:2340

SEQUENCE LENGTH:320

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02702

SEQUENCE DESCRIPTION:

GATCGTAAAC TTGTTGATAA AGAAGATATC GACACTAGCA GCAAAGNAGG CTGTGTCCAA 60
 CAGGCTACTG GCTGGAGGAA AGGGACAGGC CTGGNATATG GCCATCCTGG ATTGGCTTCA 120
 TCAGAGGAGG CTGAAGGCCG GATGAGGGGC CCCAGTGTG GAGCCTCAGG AAGAACCAGC 180
 AAAAGACAGT CCAACGAGAC TTATCGAGAT GCTGTTTCGAA GAGTCATGTT TNCTCGATAT 240
 AAAGAACTCG ATTAAGNAAG GNGNCAAGTT CCATGGGATA CAACCTACCT CTTGTTTTGT 300
 TTGTCTCTCC TTTTCTTTN 320

SEQ ID NO:2341

SEQUENCE LENGTH:519

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02703

SEQUENCE DESCRIPTION:

GATCTGAAAG GAGCAAGGAA CAGCAAGGAA TTATTTTCCA GAATGACACC CGCAGCAGAA 60

TGTGGAGTG GAAATGATGG CTGGCTATGA AGAGGAGGTC AACGTGTGTG GTCTCCTCAG 120
 TCTCTGTCAG AGGGGTGGGG AGGTGGGAAA CAGGAATCCT CTGCAAAGCC CAATCTGCAG 180
 AGTCGAGACC CCTGGTGTCT TCTGCCCCGC TGCCTGGCAC TGGTCCTTTG CAGCCAGCCA 240
 CCAACGGCCC CCTTGCCCTT NCAGAGGCAG AAGCCTNCGT CTNAACCTGC ACCTCTGACC 300
 GTTNAGCAC CNTTGGGTTN TTACCANGTC CTANAACCTCT GANATTTNTT NGTTCTAAAA 360
 GGGGTTTCTA TTTCAACTTG NTGAGTTTGT NTTTTGGGNC CTTCCAATT GGGNTACCTT 420
 GNTATNTTN ATGGTTTAT AAATCCTTNA CTCTTGGNAN GTTTTAATTN TTTACAAAAT 480
 CAGGGATAAC TTTNGTTTNA ANACTGGTTT GAAGGAATN 519

SEQ ID NO:2342

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02704

SEQUENCE DESCRIPTION:

GATCCCAACT AATTTACCG AACCTAAAC CCACAAAGAG GTTGTGTGTG TTATTGTTCA 60
 ATCTTCAGTT GTAAGAGTAA TTCTCTATTT TNATATTGAA ACATAATTAC TTGATAGCTC 120
 AGGGTCTACA TTTCAATCAA CTTTTTACAC CAAATTCTGC AGAGTGGTCA AAATGGAATA 180
 TTGGGGGCTG TTGTAACAG AGGCTTAATT TTATTAGAAG TAGCCAGTTA TTTATTAAAG 240
 CATGATGTTA ATAAATAGG CATATTCTGA AA 272

SEQ ID NO:2343

SEQUENCE LENGTH:272

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02705

SEQUENCE DESCRIPTION:

GATCTGACAT GATTCCTTCC TGTCTGAAC TGTGGGGTGT GCACATCTCT ACTTGAGTCA 60
 GGTTNAGTA GAGGCTTAGA GACAGTTAGG TGAGAACAAC CAAAATCTTA TCATGGTCTC 120
 AGTCANNATC ATTAGGGGGA ACTCTAGCCA AATNGTTTAA CTTCTGCCTG TGGAAGTGGG 180
 GATTGGGTGG GCAGGAAAAG GTGATATCCA TTCTTTCTGA TAACTAGATG GTGCTGAGAA 240
 GCTTTTGAAT AAAAAGTTTG CTAATGAGA AA 272

SEQ ID NO:2344

SEQUENCE LENGTH:273

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02706

SEQUENCE DESCRIPTION:

GATCTTTCCC AGGCCGCACC ATTTCTNTCA CTCACATGGA CCCAAGATAN AAGAATGGCC 60
 AAACCCTCAC AACCCCTGAT GTTTGAAGAG TTCCAAGTTG AAGGGAAACA AAGAAGTGT 120
 TGATGGTGCC AGAGAGGGGC TGCTCTCCAG AAAGCTAAAA TTAAATTTCT TTTTCCTCT 180
 GAGTTCTGTA CTTCAACCAG CCTACAAGCT GGCACNGCT AACAAATCAG AAATATGACA 240
 ATTTAATGAT TAAAGACTGT GATTGCCACC AAA 273

SEQ ID NO:2345

SEQUENCE LENGTH:277

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02707

SEQUENCE DESCRIPTION:

GATCCATGAA GCTGCCCTGC CCACGCCTCC CCTCCCTGTA GCAACACCTC TGGGTGTTTG 60
 GAGTTTAGCT TTTGTGGGTT TGCTCTCCCT ATCCCATCTC CTGTACTACA CAGTTCATGG 120
 CAGGGTGGGG AGNNGTGGGG TTGGTTCGGG TGGGTGAGGG TCTTTTCCT CTGTGTGCGA 180
 TGTGTGTTATC TGACAGNTCT CCGTCCCTAC TGGCCTTTCT CCTCGTCTTC ATATTTGTAC 240
 GGTACAAGCA ATAAAGACAC TCATTTTCAGA CCAGAAA 277

SEQ ID NO:2346

SEQUENCE LENGTH:431

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02708

SEQUENCE DESCRIPTION:

GATCTTNCTA GGAGGGAGAC ACTGGCCCTT CAAATCGTCC AGCGACCTTC CTCATCCACC 60
 CCATCCNTCC CCANTTCATT GCACTTINAT TAGCAGCGGA ACAAGGAGTC AGACATTNA 120
 AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGCCACGT GGGCTCATAT GGGGCTGGGA 180
 GTAGTTGTTT TTCTTGGCAC TAACGTTGAG CCCCTGGAGG CACTGAAGTG CTTAGTGAC 240
 TTGGAGTATT GGGGTCTGAC CCCAAACACC TTCCAGCTCC TGTAAACATAC TGGCCTGGAC 300
 TGTNTNTCT CGGCTCCCA TGTNGTCCTG GTNNCGGTTT TNTCCACCTA NGAAGTAAA 360
 CCTCTTCGAG GGCAAGGGAC CACACCCTGT AACTGTTCTG TGNCTTTTAA CAGGTTCCTN 420
 CCATTAATGC N 431

SEQ ID NO:2347

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02709

SEQUENCE DESCRIPTION:

GATCTTTTGT GTCTGGTTCC TTTCACGTTG AACGCTATTT TTAAGGTTG TGCCTGTTGT 60
 AGACCACAGT CACACACTGC TGTAAGTCTTA CCCCATCCTC ATCCAGCT GCCTCCTCCT 120
 ACTGTTTCCC TCTATCANN NGCCTCCTTG GCGCAGGTTT CCTGAGCTGT GGGATTCTGC 180
 ACTGGTGCTT TGGATTCCCT GATATGTTCC TTCAAATCCA CTGAGNATTA AATAAACATC 240
 GNTAAAAGAA TGACCTTCCC AAGGNA 268

SEQ ID NO:2348

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02710

SEQUENCE DESCRIPTION:

GATCAGAAAC CAGTCTCCTT CCCCGTAGTC TGGACTGGGT ATCCCCTCTT AAATNTTTC 60
 AAAGCAACAC AAATTTAATT CCGTCACAGA ACTTGCCACT CTGTGCTGTG TCCTCTGTTT 120
 CCTTGCCATC TTCCTCAATN AGCTGGAAGC CCATTGGCAG CAGGGACTGT TTCTTGTTC 180
 CAGCTGCACC TCAGTGCTAA GCATAGTGCC TGGTAGGTAA TAGACTCCTT AAGTATTGT 240
 TGAATTAATA AAGGATGNNT TTTTAA 268

SEQ ID NO:2349

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02711

SEQUENCE DESCRIPTION:

GATCAGAAGC CATTNNATT GGTAGGTGTG TCAGAAGGGA GAATGATGNN AGACGAACTG 60
 CTGGAAGAGG TCAGAAGATA GCCATGCTAA AATGCAATTA TATCCTCATG TTTATCCCAA 120
 ACTAATCTTG GACTTTTCCA CTCATTAGCT TTGTTNTGCC CTTGTTTCCC TTGAAGGTTT 180
 AAGTTCAACC ATATTCTGTC AACTGTTCAG TTTAGTGGA ATCTTGATT TCTGGTTCAT 240
 TATAACAAAC TGTTCGCTTA AATCCAAA 268

SEQ ID NO:2350

SEQUENCE LENGTH:398

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02712

SEQUENCE DESCRIPTION:

GATCCGAGAA CGCTCTAAGC CTGTCCACGA GCTCAATAGG GAAGCCTGTA ATGACTACAG 60
 ACTTTGCGAA CGCTACGCCA TGGTTTATGG ATACAATNCT GCCTATAATC GCTACTTCAG 120
 GAAGCGCCGA GGGGCCAAAT NAGACTGAGG GAAGAAAAA AATCTCTTTT TTTCTGGAGG 180
 CTGGCACCTG ATTTTGTATC CCCCTGTAGC AGCATTACTG AAATACATAG GCTTATATAC 240
 AATGCTTCTT TCCTGTATAT TCTCTGTCT GGCTGCACCC CTTTTCNCNG NCCCCAGATT 300
 GNTAAGTAAT NGAAAGTGCA CTGCAGTGAG GGTCAAAGGN GAGGCAACAT ATTNTNNTT 360
 TCCATAATAA AACTTTCTTG GGGGNNATAC TTTTCAA 398

SEQ ID NO:2351

SEQUENCE LENGTH:381

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02713

SEQUENCE DESCRIPTION:

GATCTGCAAG CATTGCTCT TGTTCACACA TCACCTCTGG GATATTTTCTG CTGTTGTTTC 60
 CAAATGGCAA ATCATCAACT AAANGCACTT GTTCAAGTT TTGTTCTGCA CTCCCACGAC 120
 TGAAGTTGTA GATTGAGCTG AATAACCATG GGAAGTGANC AAGCAAAGAC ACTCGATTGG 180
 AGTCAGTTGA ATATTTGTAC CCTCAGTGA GCCCTTCTGG TCTTTTCTTC CACTTCTGCA 240
 GAATTTCTCT TAGCAAATAC TTCTTTCTCC TTGTTTGCCT CCACCATGAT ATTTGAATAA 300
 GAGATGCCA GAGGATAACA CTGTCTCTT AAAAATAAG CTAAAAAGGA CCTAGGAACC 360
 TTCAATTGA GCAGTTGGTT N 381

SEQ ID NO:2352

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02714

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTTGGCCTC TCAAAAGTGT GGGATTGCAG GCGTGACACG TGCTCCTGGC 60
 TTGAATTTTC TTATAATCCC ATGAAACCAT CATCAGAGTC ACAATAATNA ATTTATCTAA 120
 TCTATCACCT TTGTATTAC CTGGAGCCTT TATAAAGTTT TTNTCTATGC AGACAACCAT 180
 TGATTACTC TGCTGTATAA TACTTTCCAT TTTCTAGAAT TTTCTGACTG ATGTAATAAA 240
 GTGTTTCCTC TTATAATCCC TGA AAA 265

SEQ ID NO:2353

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02715

SEQUENCE DESCRIPTION:

GATCGGGGGC TTGAACCCAG GTGGTCAGGC TCTGGAGCCC ACAATTGTNT TACCCACTAT 60
 GCCCCCTCTCT AGTCATGGTC CCCAAGAGGG GCTTGGAGAC CCCTTAGCA GGTGAAAGCA 120
 ATGGCAGCCT TCCTTATTG ATTATGCACC TAAGAATAAA TGGTATTGG GCATGTATTC 180
 CCAATATGTG TATATTATT TATAAATATA TACAGATACT ATNATCTGTA TGTNAGTAAT 240
 AAAGCTTAAA TTATTCCATT TTA AAA 265

SEQ ID NO:2354

SEQUENCE LENGTH:379

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02716

SEQUENCE DESCRIPTION:

GATCGGCGGA CGCCATCAC CGTGGTGAAG CAAGGCTTTG AGCCTCCCTC CTTTGTGGGC 60
 TGGTTCCTTG GCTGGGATGA TGATTACTGG TCTGTGGACC CCTTGGACAG GGCCATGGCT 120
 GAGCTGGCTG CCTGAGGAGG GGCAGGGCCC ACCCATGTCA CCGGTCAGTG CCTTTGGAA 180
 CTGTCCTTCC CTCAAAGAGG CCTTAGAGCG AGCAGAGCAG CTCTGCTATG AGTGTGTGTG 240
 TGTGTGTGTG TTGTTTCTTT TTTTNTTTN NNNAGTNTCC AAAAAAGCC CTNAAAAAAT 300
 TCAGGGNCCT TGA AAAATTN TNTAAAATGC CAGNNTTTGG GGAAATNAAA CCCANTAAAA 360
 ACNTTTTGAG GGTGNA AAA 379

SEQ ID NO:2355

SEQUENCE LENGTH:261

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02717

SEQUENCE DESCRIPTION:

GATCACAAAA CAATTCTAAA ACCTAACTGT TTTTACCATT GAAATTTAAA TTGTGATAAT 60
 AGGTTTTTAAA TGTCTAGAAT GCAACTGATA GGCTTTTCTT GAACTGTTAG TTTTTTTGAA 120
 GTAGTTTTTT CATGTTTANN NNGTATTTGT AAAAAACAA AAAGCAAAAA AATTCCCAA 180
 ACCCAGATAA CAACCAGAGC AAAACTGTTG TGCCTTCTAT TTATCTTTGA TTCAGTCTT 240
 GGCAATTGTT TAAAAAAA N 261

SEQ ID NO:2356

SEQUENCE LENGTH:259

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02718

SEQUENCE DESCRIPTION:

GATCATTGGA GAGAGAATTG CACAGAAAGT CCTGAAGTTT AAAACACTTT ATGACCAGCT 60
 TTGGCTCGGG AGAGTGGGGC TGCTTGTA GAAGGAGTG AATAACTTTT TCAAGCAATA 120
 TCAGTGAGTG GGTCCCATCG ACAGGGTTCC AGGACCTGGA ACATTTAAC AGAAGGAAAT 180
 GCCGAAGCAG CTTGCACAGT NGCTTGACAG ACTTCCAAGN NGGCTGATTG TGGCTTCAAG 240
 ATGGAGCCTT GGAGTTGGN 259

SEQ ID NO:2357

SEQUENCE LENGTH:296

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02719

SEQUENCE DESCRIPTION:

GATCTGGGAG TACACCAGGC AGCAGCTGCT CTCGNACGGA GATACCAAGC CATGATGTGC 60
 CNNNNTTAGT GAACTGCTGC TGCTGTTTCA ACTTTTTTAA AAAAACTAT TTGGACTAAA 120
 GAAACAGATT CTGAAATTTA TTGTGATAAT TTGTATTTCT TTTTCTTGC AATTAAATGC 180
 CAAAAGTTTG CCATGTGCCT TAAACATATT ACTATATATT TNCCCCTTTA ATAAACACTT 240
 TTNGTTAAAT TGTATTCTTC CTTAATAAAA ATATTTTAAG CAATTGTGGA AATAAA 296

SEQ ID NO:2358

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02721

SEQUENCE DESCRIPTION:

GATCAGAATA CATGATGGAT GAAATCTTTT ACATGTTTTA GCAGAATNAA TTTGTTTAAT 60
 ATAATAAAGT TTGCTACTTA TCTGTATGTA GGTGCTAAA AANGATTTTC TTAACCTAGA 120
 TTTTAAGCCA AATAACCATT TAACACTAGT ATTTGTTAAA TGGGTTATTT TNCTGTATTT 180
 GTATGTTTCA CTATAATAAG GGAATTAAGG ATAATGTGCA TTGAGAATAT TTTGAAAANT 240
 AATTGACTCA AATN 254

SEQ ID NO:2359

SEQUENCE LENGTH:253

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02722

SEQUENCE DESCRIPTION:

5 GATCAGTTAT AAGTAGCAGG CCAAGTCAGG CCCTTATTTT CAAGAACTG AGGAATTTTC 60
 TTTGTGTAGC TTTGCTCTTT GGTAGAAAAG GCTAGGTACA CAGCTCTAGA CACTGCCACA 120
 CAGGGTCTGC AAGGTCTTTG GTTCAGCTAA GCTAGGAATG AAATCCTGCT TCAGTGTATG 180
 GNAATAAATG TATCATAGNA ATGTAACCTT TTGTAAGNCA AAGGTTTTCC TCTTCTATTT 240
 10 TGTAACCTCA AAN 253

SEQ ID NO:2360

SEQUENCE LENGTH:253

SEQUENCE TYPE:nucleic acid

15 TOPOLOGY:linear

CLONE:HUMGS02723

SEQUENCE DESCRIPTION:

20 GATCAATCCC AAGAATCCAT CAGCAACCTC AGACCAACCC AAGAAGATAA TTAAATCTA 60
 TACTGCTTAT TGGTCAATAT ATTTGGTTCT AGTATTAATA AAGAAAAATG TTATTAAT 120
 AGCATACATA GTAGTAAAT AAANTACANA AAGTGTGTTG ATTTATAGCT GTTTGAGATG 180
 ATAAAAAGTN AGCAAAGCCT GTTAAATCAT TGGAAGACTT GGANANTTAT TTAAATAAN 240
 CAATTACATG TAN 253

25 SEQ ID NO:2361

SEQUENCE LENGTH:252

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02724

30 SEQUENCE DESCRIPTION:

35 GATCTGCATA AACAGGGTTC CTGACCTCAC CGAAAAGACT AATGTGCCTT AGAACAAGCA 60
 TTTGCTGTGT TTTGTTAGCA CCTGGTTCCA GGACAGACCC TCAGCTTCCC AAGAGGATAC 120
 TGCTGCCAAG AAGTTGCTCT GAAGTCAGTT TCTATCGTTC TGCTCTTTGA TTCAAAGCAC 180
 TGTTCNTC ACTGGGCCTC CAACCATGTT CCCTTCTTCT TAGCACCACA AATAATCAAA 240
 ACCCNACATA AA 252

40 SEQ ID NO:2362

SEQUENCE LENGTH:251

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02725

SEQUENCE DESCRIPTION:

45 GATCTTCTCA GCCAGGAGAA GAGGGTGGTG TTTTCACGCG GGCAACTGCT CGCCGGCCTA 60
 CATGGGGTTA ATTCAAGTCT GCTGCGAGCA CGACTCCGCC CTTGGCACTG GCCTCCAGCA 120
 AGCCCTGTTT TCTTTGGGGT ACAGGGGAAC GGGATGGTTT AGACTTTCCT GCTCAGTGTG 180
 TAAAAAATGT AGCTAAAGCC ACTATTTTGT CTCTCCTTAA GCTGTTCAAT AAACCGGTTT 240
 CTCATTTTAA A 251
 50

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SEQ ID NO:2363

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02727

SEQUENCE DESCRIPTION:

GATCTGGAAC ACTCCCCTGA CCCCTTCACA CCTGGCCCTC CCTGGGCTTA AAGCTCCTGA 60
TATTCCTCAT CCCCTTCCTT GTTTTCAGA ATCGGTCGAG GTGGACGTT TGGCCGTAAA 120
GGTGTGGCTA TTAACATGGT GACAGAAGAA GACAAGAGGA CTCTTCGAGA CATTGAGACC 180
TTCTACAACA CCTCCATTGA GGAAATGCCC CTCAATGTTG CTGACCTCAT CTGAGGGGCT 240
GTNCTGCCAC CNAGCCNCAG NCAGGGCTCA ATCTCTGGGG GGCTGAGGGA GCAGCAGGGA 300
GGGGTGGN 308

SEQ ID NO:2364

SEQUENCE LENGTH:245

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02728

SEQUENCE DESCRIPTION:

GATCGTAGAT TTTTAACAAT CTGTATCTTT AACAAITCTG GGTGCNAGTG TNAGAGTGTG 60
AGCAGGGGCTT GCTCCTGCCA ACCACAATTC AATGAATCCC CGACCCCCCT ACCCCATGCT 120
GTACTTGTGG TTCTCTTTTT GTATTTTGCA TCTNACCCCG GGGGGCTGGG ACAGATTGGC 180
AATGGGCCGT CCCCTCTCCC CTGGTTCTG CACTGTTGCC AATAAAAAGC TCTTAAAAAC 240
GCAAA 245

SEQ ID NO:2365

SEQUENCE LENGTH:249

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02729

SEQUENCE DESCRIPTION:

GATCTAACCA ACTCAACTGA TAGAAAGCTG AATTGTTCCC AGTGGACAAG TGGTATTGA 60
TGTTTAGCAG GTTTTTTGT TGTTATTTT TTGGTAACT CTGTGGTAAA ATCTAAAATA 120
ATGTTAAAAAC CCTAAAAGTA ACTATTGANT ATNCTGTAAT CTTAGACATG TATTTTCAA 180
GCTAACCCCTT TGAAGAAATG TGTTCAGGT AGGAAAATAT AAAATTTTTT GGTATTGT 240
AAATTTAAA 249

SEQ ID NO:2366

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02730

SEQUENCE DESCRIPTION:

GATCATGCAT TGTGAGGTG GTCTGAATGT TCTGACATTA ACAGTTTTCC ATGAAAACGT 60
TTTATTGTGT TTTAATTTA TTTATTAAGA TGGATTCTCA GATATTTATA TTTAATTN 120

ATTTTCTTCT ACCTTGAGGT CTTTGTACAT GTGGAAAGTG AATTGGAATG AAAAATTAA 180
GCATTGTTTG CTTATTGTTT CAAGACATTG TCAATAAAAG CATTAAAGTT GAATGCGAAA 240

SEQ ID NO:2367

SEQUENCE LENGTH:251

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02731

SEQUENCE DESCRIPTION:

GATCTATACT GTGTGGTCAT GAGTTGTGTA TAGTTCCATA ACACTGTATT TTNCTNCTGT 60
CAGTACCCCTT AGGATACACT NTAAACACC TTAAGGTCTG ATGTTATGGC AACAACTAC 120
TTNTTCAAAC CTAATAGGA ACCATGTAAT TNCTCAAAG TGATTGAACA GTTGCCAC 180
ACTTAGTTTG TTGGTCTTAT GTAAACATT GGCTCAAAT AAAGNNCACA CTGATTTATT 240
TNACTGNNA A 251

SEQ ID NO:2368

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02732

SEQUENCE DESCRIPTION:

GATCTGAAAA TTTATTTTAC CCAGCTTTCA CAATTAAGTC TGTATAAAT GTGGTACCTT 60
TTNGTACCTA TCCAGAGAAA CCTGTACATA TTCAATGTTA TCTAGATGTG ATTGGATAAT 120
GGAGAAAAATN TATTTATAAT GATTTTNCAA TGGCATCAAT AACATTTAAA TGATTTTGAA 180
GAAGTATTAT TTTACTACCC TATAAATGA ATCGAAAATA ATAAAGTTCT TAACATAAA 239

SEQ ID NO:2369

SEQUENCE LENGTH:239

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02733

SEQUENCE DESCRIPTION:

GATCAAATTA TCTTCAGCAT GTATATCTGG GGAAAAAGG TCCGAATTTT CACATTTATA 60
TTTAAANTTC AATTTTTTAT ATTTAAANTT CAATTTTTTA GCAACAGCTG AATAGCTTTG 120
CGGAGGAGTT TAATAGTTAC ACATTCATGC TAATATACAT TNCCTTTAAA CATCCACAAA 180
TTCTTAAAAA GATTGAATCA GTANATTCA TTTCAGCTAA AAATGGAGTC TAATATATN 239

SEQ ID NO:2370

SEQUENCE LENGTH:237

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02734

SEQUENCE DESCRIPTION:

GATCCACCCG CCTTGGCCTC CCAGAGTGCT GTGATTACAG CTGTGAGCCT CCGTGCCAG 60
GCCAGTGTTT TCTCTTAAAT GTGTTTCAAT ATGGTGGACA TTTATTGAGC ACTTGTTTG 120

GGCGTTTCAA CAGGAGGCAC TGGTACGAAA AGTAGCTTGT TCTAGTTCAT ATATCATTTG 180
CACTTTGCTT AACTTGTATA AGTACTTTTT ACTGTTTAAT AAATATTTTA TTAGAAA 237

5 SEQ ID NO:2371
SEQUENCE LENGTH:236
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02735
10 SEQUENCE DESCRIPTION:
GATCAAAAGA GCAAACAATA CTTTCTATGG CTTATCAGCA GGAGTGTITA CCAAAGACAT 60
TGATAAANCC ATAACAATCT CCTCTGCTCT GCAGGCAGGA ACANTNTGGG NGAATTGCTA 120
TGGCGTGGTA AGTNCCCACT GCCCCTTTGG TGGATTCAAG ATGTCTGGAA ATGGNAGAGA 180
15 ACTGGGAGAG TACGGTTTCC ATGAATATAC AGNGGTCAA ACAGTCACAG TGAAAN 236

SEQ ID NO:2372
SEQUENCE LENGTH:236
SEQUENCE TYPE:nucleic acid
20 TOPOLOGY:linear
CLONE:HUMGS02736
SEQUENCE DESCRIPTION:
GATCCNATTC CCGTTGCCCTC AAAGCACCAG CTCTCTCGCT CCATCCTCCC AAGAGCCTCC 60
AAGCGCCCAT TGGCTTCCTG GGACTCTGAG TCTGCCGGCC TCTTTTCTG ACTCCAGTTT 120
25 CTTCTGGCCT GAGCCAATGG GGCATGTTCT GTGACTGCAT TTGCATCTCG GATTGTGTTT 180
TTAAACCCAT TTTCTCCCAT ATTTGCCTGA AAAATATATA GAAACTGATA TACAAA 236

SEQ ID NO:2373
30 SEQUENCE LENGTH:245
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02737
SEQUENCE DESCRIPTION:
35 GATCAGGCTG GTACAGGATG CCTTAAGGTG ATGAGAGGTG AGGGTGCATG AAGAATAATG 60
AGCACAGGGA AGAGAGAAGC AGGACAAAGT AGCAGATAAA ATGCCGGCAA AGCACAGATG 120
ANTGTTTTCA AGAAGCTCTT GTATTTNTNT GCACAGTGTA AATATCCTTG CTATTTCAAG 180
ATGGCGGCTG GCCTGCTCAG TAACATACAT GTTCCAAATA AAGATTTTGC ATGAAAGTAC 240
40 CTAAA 245

SEQ ID NO:2374
SEQUENCE LENGTH:231
45 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02738
SEQUENCE DESCRIPTION:
GATCTGACTG COTCCTTTCT CTGGCCTCTN CCCCCTNCCC TCTTCTCTC AGCTAGGCTA 60
50 GCTGTTTGG AGTAGAATGG CAACTAATTC TAATTTAAT TTATTAAATA TTTGGGGTTT 120

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TGTTTTTAA GCCAGAATTA CGGCTAGCAC CTAGCATTTC AGCAGAGGGA CCATTTTGA 180
CCAAAATGTA CTGTTAATGG GTTTTTTTTT AAAATTAAAN GATTAAATAA A 231

5 SEQ ID NO:2375
SEQUENCE LENGTH:236
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02739
10 SEQUENCE DESCRIPTION:
GATCCACTGT GAGCACCAAC CTGCTGCAGT CTCTGGGCC CCTGCTGGCA GCTCTGCCAC 60
GTCACCGNCT GCCTGGCTCC CACACAGCCA TGCATTGTCA CTCTGCCTCC GGGACCCNAG 120
CTTNGGAGCN NNTGGGTCTG CCAGGTCCCA CCTCCTCTGT CCCCNA TGCC ACAACCTGGG 180
15 CTCCTGGCTA CAGCAGGGNT CCAGGGACTN CAAATAAATG TTCAGTGACT GGCAAA 236

SEQ ID NO:2376
SEQUENCE LENGTH:235
SEQUENCE TYPE:nucleic acid
20 TOPOLOGY:linear
CLONE:HUMGS02740
SEQUENCE DESCRIPTION:
GATCGGTCAC ACAAGCTGTT CCACGATAAT TTTGTNTCA NAAGGGGAGN CTGACTACCA 60
25 GGACCACTGG CCCCACTTCC AGCCCCTCCA TTCTNAGTAC ACTTCAGAGG GCTCTGGCAG 120
GGTGAGGGGG TCTGNCCGT GCCACAGAGA GTAAAGGTCT AGCACACCCA TTGTGGAGAT 180
ATTTATGGG GACANCCAG TGACTTCACT TTGAAGTAAA GTGGGATTTT CCAAA 235

30 SEQ ID NO:2377
SEQUENCE LENGTH:253
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02741
35 SEQUENCE DESCRIPTION:
GATCGNAGGC TACCCTGGCT CAGTNACCAG CTGCTCACTG TGTCTTCTG TGGTCTCAGG 60
AGCTGCAGTT GTTGCTGTTG TATGAATAGA CGATAGTNAA TTAGACTGGA TGTGTCTGTA 120
CTGGCAGTNA TTTTCCAACT NCCTCTGTAT AAGCAATACA TTTGTAAATC ATGGGAATGT 180
ATTTAATGGT AATTGCCTGT GGTGGTTGTA TCATGATTTA NTNNTATNAT GAGCTTTTGG 240
40 CTTTNTNTAT NTN 253

SEQ ID NO:2378
SEQUENCE LENGTH:232
45 SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02742
SEQUENCE DESCRIPTION:
GATCTGGGGT CCCAGTGTCA TTGGTGAAGG CCTTGGGATT CGAGGCAGCT GAGTCCTCAC 60
50 TGACCAAGGA TGCCCTTGTG CTTACTCCAG CCTCCTTGTG GAAACCCAGC TCTCCTGTCT 120

55

CCCAGTGAAG ACTTGGATGG CAGCCATCAG GGAAGGCTGG GTCCCAGCTG GGAGTATGGG 180
TGTGAGCTCT ATAGACCATC CCTCTCTGCA ATCAATAAAC ACTTGCCTGA AA 232

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SEQ ID NO:2379
SEQUENCE LENGTH:232
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS02743

SEQUENCE DESCRIPTION:

GATCTCTGAA AAGNAGGTTT CAGCCACGAG GCAGCTGNTC CCAGGACACT GAGGCCAAGA 60
GAAATGTAAC AGAGCCACAG CTCCACAGGC CTGCACTCGG AGTCTGGGGC CTCTGCAGAG 120
CCAGCAAGGG GAAAAGTATA ATCTGGGGGA CCTTCAACCA CTAAGCCTCT TGTGAGAGCC 180
CTCAGGCAGG CAGATGTGTC ACCCAAATAA ACAGTGATAT TGTCTCCAGA AA 232

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SEQ ID NO:2380
SEQUENCE LENGTH:232
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02744

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SEQUENCE DESCRIPTION:

GATCTNAGCT GGACAGAGGA GGAGGAAGAG GAGGAAGCAA TGGGGGAATA GTGACACCAG 60
ACAGTTGATG TCTAGATAGG ACCTCAATNA TTCCNTTAGA ATCTNAGATA CCAGGATATT 120
GTTGGCCATG TGGCATCATT GAGCAGCAGG AGGCTGAAGG AGGNGAGAAC AAAATTGTCC 180
AAACCATGCT GTTTTTTCC CTAAATAAA TCTTGATTTC TTCAGTTCA AA 232

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SEQ ID NO:2381
SEQUENCE LENGTH:236
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02745

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SEQUENCE DESCRIPTION:

GATCTANGGA ACCAAACGGA AGGTTTTGAG GTGATGTAGG TCTTTCACAG TTAGCTTTGG 60
GGAATACAGA ATACTCAAAT AAAGTGCTTT GTTATTATTT CAGAGGGAAT GGCATTGAA 120
ATGTTACAAC AGAGATTTCT TGGTGGTAGC TATTTNGGTA AAGGGTATAT GGNTATTTTT 180
CTGTACATGT GAAATTATAT AGANNTAAAA GTTATATANA TTACATTGGC CAGAAA 236

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SEQ ID NO:2382
SEQUENCE LENGTH:229
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02746

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SEQUENCE DESCRIPTION:

GATCAAGTTT AAGTCAGTCA GTTAAGGGGA GGAGAAGGAG AGGTTATACN TTCAGGGGGC 60
TACCAGACAG TGTTCTCAAC TTGGTTAAGG AGGAAGAAAA CCCAGTCAAT GAAATTCAAT 120
GAAATTCTTG GAAACTTCCA TTAAGTGTGT AGATTGAGCA GGTAGTAATT GCATGCAGTT 180

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TGTACATTAG TGCATTAAAA GATGAATTAT TGAGTNCCTA AAGATTAAA 229

SEQ ID NO:2383

SEQUENCE LENGTH:227

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02747

SEQUENCE DESCRIPTION:

GATCTGATTT CAGATTTTTC CTGTATCTTT TTTACATACA TCAGAAAAAG AAATGTTTAC 60
TATATTTTTC GTTCCATTNA TGATTGTTT AAGCATTGA CGNATAAGGA AACTAACAA 120
TTAANTCAAT TAGAAAAAGCA ACATAAAATT AANTGATATT TAGGAAATCA GTTATATGTG 180
AGCTTGGGTA TTCAAATGTC ACAANTAAAA GGCNTANACC CATNAAA 227

SEQ ID NO:2384

SEQUENCE LENGTH:223

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02749

SEQUENCE DESCRIPTION:

GATCAAAATNA CCTGTGAAGG AATATTTTGC CTTATCCTA GCTGCTGGGG AAGCGGGGAG 60
AGGGGTCAGG NAGGCTAATG GTTGCTTTCC TGAATGTTTC TGGGGTACCA ATACGAGTNC 120
CCATAGGGNC TGCTCCCTCA AAAAGGGAGG GGACAGATGG GNAGCTTTTN TNACCTATTC 180
AAGGAATACG TGCCTTTTCC TTAAANNCTT TCATTGATTG AAA 223

SEQ ID NO:2385

SEQUENCE LENGTH:221

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02750

SEQUENCE DESCRIPTION:

GATCAGGGTT TNGGGTCTGT GTTCTTTCTA CCGTCAGCAC CTGTGTGGTC AATTCTGGAC 60
ACTTCCAGAG GAAGTCTTTG AGTAGAGAAT CCTACTCAA TTTCACTGTA TATNTTAAGC 120
ATTCCTCTCC TNTCCNTTG CCTNCCCTGT TGCCTTNTCT TCCCCTGATT TCTCCTCTGG 180
TCATCTNCTC TCCCTNCTGC GTGTAAGCCA TGGGAAAGGG N 221

SEQ ID NO:2386

SEQUENCE LENGTH:220

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02751

SEQUENCE DESCRIPTION:

GATCATGAAA ACAATGTAGG TAAAGTAAAG TATGTATTTG TCTGTGCTTG AAAAAATATTG 60
TAAAATGTTA TGTATTTGGA ATATATTTTG TGGTTTGTCT AATATTTATA AACACAACCTC 120
GGGGTGAATT CACANTGAGT TTATTTTCAAT GAAATACTAG AGATATGGGG GCCATGTTAC 180
TGTGCTTGGN GCCTTACCNT TTGTATAGTG AAATTTGCAN 220

SEQ ID NO:2387

SEQUENCE LENGTH:220

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02752

SEQUENCE DESCRIPTION:

GATCCGCCTG CCTTGGCCTC CCGAAGTGCT GGAATTACAG GCATGAGCCA CTGCTCCTGG 60
 CCTAAGATGT TTTTAAATA ATGTTTTTAA CTAAATTTA AGAATGTTT TAACTAAAGT 120
 TATTTATATT TGGAAATAATT CGTTAATGAT TTGTGTCATT TCCCAACCC CTTTTTAAAT 180
 TTGTGAATTT GAGGACTGGA TTTAAAGATA AAAAGTTAAA 220

SEQ ID NO:2388

SEQUENCE LENGTH:339

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02753

SEQUENCE DESCRIPTION:

GATCTAATTA ATAGCTGACC TCCCAATCT GACAGGATAG AACTGCCAC GTGCAAGGCC 60
 TGCCAGCCCC TCAGACGCAC AAAATGCGTA AAACAAATGC ATCCTTTCCT GGCTAAGCGA 120
 GTATTACTCT CTTAGCCCTG CACCAAACT CCAATCTAGC CACATTTAAC TTTTCATTTC 180
 TTAGACCCGC AGAGTGTCTT CCTGCCTCTG AGCTGTGAGT GTTGTTCCTT TTGCCCGGGA 240
 TGCTCTTGTT TTTAATACCA GTTCAAGTCC CACTCTCTCA GTGAAGCACT CCCTTCCCCA 300
 CTNATAGCCT TTAGTGAACC CTCGTTTCTT GCTTCTTN 339

SEQ ID NO:2389

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02754

SEQUENCE DESCRIPTION:

GATCCATGTG CAGTAATGCC TGGTGGCTCC AGGTCTGCCC CGCCGTCCTG TGGGGCTGTG 60
 AGCTTTCCCA GCCTCCTGCC CGTGTGTTGT AATATCATTG TGTCTCAGC TGCATTTC 120
 GCCCAGGCTG TTTGGCGCTG CCCAGGAATG GTATNAATTC CCCTGTTTCT CTTGTAGCCA 180
 GTTACTAGAA TAAATCATC TACTTTAAAA TCTTTCAA 219

SEQ ID NO:2390

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02755

SEQUENCE DESCRIPTION:

GATCTTGACC GGGAAAAGG ACTTGAGAGA ACCTTCTAGG ATAATTNAT TTCTTGATTA 60
 GGTGGTGGTT ACATTTGTAA AAATCATCGA CCTCTAAAT TAGGGTTTGT GCCCTTCACA 120
 TACCTTGTTG TATGCATTTT GCCACTGTT TTTTCAAAGC AATGAAAAAG TATCACTGCA 180

ATTAGGTTTT AAATAAATTT GTTCGTAA CATGTCAAA

219

SEQ ID NO:2391

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02756

SEQUENCE DESCRIPTION:

GATCTGGAAT CGGGGTCAGC GGGGCTACAG TCCTTCCAGG GGCTNTGGGG CAGCTCCCAG 60
 CCTCTTCCCA TGCTGGTGGC CACCGTGTCC CTTGCTGCGG CTGCATCTTC CAGTCTCTCC 120
 TCCGTCTTCC AGTGGCCGCT CTCTTTATAA GAACCTGGT CATTGAATTT AAGGCCACC 180
 CCAAGTCCAG AATGACCTCG CAAGACCCTT AACTCAAA 218

SEQ ID NO:2392

SEQUENCE LENGTH:217

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02758

SEQUENCE DESCRIPTION:

GATCCATTTT TAATGGTTCA TTTCCTTTAT GGTCATATAA CTGCACAGCT GAAGATGAAA 60
 GGGGAAAATA AATGAAAATT TTACTTTTCG ATGCCAATGA TACATTGCAC TAAACTGATG 120
 GAAGAAGTTA TCCAAAGTAC TGTATAACAT CTTGTTTATT ATTTAATGTT TTCTAAAATA 180
 AAAAATGTTA GTGGTTTTC AAATGGCCTA ATAAAAAN 217

SEQ ID NO:2393

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02760

SEQUENCE DESCRIPTION:

GATCAGAGGA ACTTTNAGGT GTCTGCCGGC TAACATTGTG TCATTCTGG AGTCCACAGT 60
 ACACGTCCCC TGCCTCAACA GGCACAGCTC TCACAAAGCT CTTCAAGCAT GGAAGTGGGA 120
 GTTGTGTTGT ACTTCATGGC ACTCTGATGC CTGCTGTCTC AGTGTGTTGGT TATTATGCAA 180
 ACAAGTAATG TTTGAAATAT ATAATAGCAC TGGAAA 216

SEQ ID NO:2394

SEQUENCE LENGTH:215

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02761

SEQUENCE DESCRIPTION:

GATCCATTTT TACCTGCATT TCCCAGAGGA CTAGCAGGAG GCAGCCTTGA GAAACCGGCA 60
 GTTCCCAAGC CAGCGCCTGG CTGTTCTCTC ATTGTCACTG CCCTCTCCCC AACCTCTCCT 120
 CTAACCCACT AGAGATTGCC TGTGNCCTGC CTCTTGCCCTC TTGTAGAATG CAGCTCTGGC 180
 CCTCAATAAA TACTTCCTGC ATTCNCTGN NNAAN 215

SEQ ID NO:2395

SEQUENCE LENGTH:214

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02762

SEQUENCE DESCRIPTION:

GATCTAAATG TAAAAGCAAA TGAAAAATGC ATGTNTTTTT NCCTGTCAAA CATGTATACC 60
CTTATGTATA GAGACCAGTA GTCACGTATG GTGACTGAAA CAGGATTATG TAATCCCTAA 120
AAAGCAGAAT ATGTAAAANT CACATGTATG CGTTTGGTTT AGGAATGTNC TTTTGTACTT 180
CCACTTGAAT AAAGGTGTGT TTGGTATTCT GAAA 214

SEQ ID NO:2396

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02764

SEQUENCE DESCRIPTION:

GATCCAGAAA TTCAACTTC GAGAGCAGAT GGAACGACAT CTAAATCTNT GAATAAAGCA 60
GCAGGCCTGT CCTGGCCGGT TGGCTTGACT CTCTCCTGTC AGAATGCAAC CTGGCTTTAT 120
GCACCTAGAT GTCCCCAGCA CCCAGTTCTG AGCCAGGCAC ATCAAATGTC AAGGAATTGA 180
CTGAACGAAC TAAGAGCTCC TGGATGGGTC CN 212

SEQ ID NO:2397

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02765

SEQUENCE DESCRIPTION:

GATCTATTAA AGTGTCAACT TTGCATTATA GAACTGAACA TGAAGTAAAT TGAGTGTTC 60
TGAGTTTNCCT ATAGAAAATT TATGCTACCT CTCATCTTTT CACATACAAA TAAGCAACTT 120
TTAATGAAGG CTTAGGGTGN AAATTTTAAT TTTAGCACTT TACATTACAT GATGAATGGT 180
GAATATTAAG GGACTTTGAA CATTTTAATA AA 212

SEQ ID NO:2398

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02767

SEQUENCE DESCRIPTION:

GATCGAGAAG CTGCTCAATT ATGCACCCCT GGAGAAGTGA CCACGCTGAA ACCCACCAC 60
CCGCTGTGCT GACCATGGGC CCTGAGCGTC CTACCCCGAA TTCACGAGGC TGAGGCATCC 120
GGGAGCTGGC GTAATGCCTG GCCGCAGTGT GTGTGTATCC CATACCCAC TCTGGAAGGA 180
ACCATCCAGT AAAGTCTTT CAGAACCACT AAA 213

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SEQ ID NO:2399

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02768

SEQUENCE DESCRIPTION:

GATCAGAGAT GCACCACCAA GCCAAGGGAA CCTGTGTCCG GTATTGATA CTGCGACTTT 60
CTGCCTGGAG TGTATGACTG CACATGACTC GGGGGTGGGG AAAGGGGTCG GCTGACCATG 120
CTCATCTGCT GGTCCGTGGG ACGGTGCCCA AAGCCAGAGG CTGGGTTTTCAT TTGTGTAACG 180
ACAATAAACG GTACTTGTCA TTTCGGGCAA A 211

SEQ ID NO:2400

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02769

SEQUENCE DESCRIPTION:

GATCAGACAC CCCTTCACGT GTATCCCCAC ACAAATGCAA GCTCACCAAG GTCCCCTCTC 60
AGTCCCCTTC CCTACACCTT GACCTGGCCA CTGCCGNACA CCCACCCAGA GCACGCCACC 120
CGCCATGGGA GTGTGCTCAG GAGTCGCGGG CAGCGTGGAC ATCTGTCCCA GAGGGGGCAG 180
AATCTCCAAT AGAGGACTGA GNACTGCTAA A 211

SEQ ID NO:2401

SEQUENCE LENGTH:206

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02770

SEQUENCE DESCRIPTION:

GATCACCTAC TTACTGTATT CTACATTATT ATATGNCATA GTATAATGAG ACAATATCAA 60
AAGTAAACAT GTAATGACAA TACATACTAA CATTCTTGTA GGAGTGGTGA GAGAAGCTGA 120
TGCCTNGNTT CTACATTCTG TCATTAGCTA TTATCNTCTA ACGGTTTCAGT GTATCCTTAC 180
AGGAATAAAA GCAGCATNTG GNTAAA 206

SEQ ID NO:2402

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02771

SEQUENCE DESCRIPTION:

GATCGAATGA AGGATTCAAA ATTAACCACT CCAAGGGGGG ATTGAAGGAA GAACCACTCT 60
TAATGGACAA AAAGAAAGAA AGGGGAGGGA GTAACAGGGA TATNAGCTCT AGCCGCCCAA 120
GCTAGCAATG GCAACCCTTC TGGGTCCCCT TCCAGCATGT GGAAGCTTTC CTTTCGCTTC 180
ATTCAATAAA CAGCTGCTGC TCAAA 205

SEQ ID NO:2403

SEQUENCE LENGTH:228

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02772

SEQUENCE DESCRIPTION:

GATCTATAGA CATNAGGAAG GGAGTNAGAC GGCTCCTCCA CCATCCTCAG CCAGTGCAAC 60
CCATTCCCTC TNCCTCTCTC TCTCTCTCTC TCTCTCCCTC CCTCTCCTTC CCTACCCTCT 120
CACCATCTTT NTTGGCCTCT CTNAGGGTCT CTCTGTGCAT CTNTTATAGGA ATCTNGCTCT 180
CACTCTCTAC GTAGCCACTC TCCTTCCCCN ATTTNTGNGT CCACCCNN 228

SEQ ID NO:2404

SEQUENCE LENGTH:273

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02773

SEQUENCE DESCRIPTION:

GATCTAGCTA GGGCTTTGTC TNTTCATCTT TGTGCATAAC TTACCTGTGA CCAGTATAGG 60
TGGGATATAC ATNTATCTTG CAGGAAATTC CCCAAAGCTC AGAGTCCAGT TCCTTCCATA 120
AAACAGGCTG GACAAATGAC CACTATGTGA GACCCCCCGG NTCGACTTCA GGGGTCACTG 180
TTCCTGTCCC AAACCCNCAC ACAGAATNCT CTGNCTGNGG TTCATGTNGA AACTGAGCAA 240
AAACTANAGT ATCTNTCAAN ANGTGTAACN TGN 273

SEQ ID NO:2405

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02774

SEQUENCE DESCRIPTION:

GATCCACCTC ATATGTGAGT CCGTCCAAAA GATGTTACTG CTCTGGGTGG GCCAGTGTTT 60
TATATCGGTT ATACTAACTT TCATTIAAAG TATTTATTCT AAAATGCCTC TGAGAAACAG 120
TAAAAAATAA AAACAACAAG TTGTCTAAAA TGCAACAGCT TTTATAGTAA ATGTACATTT 180
ATAAATAAAA TACTCAAATC AAA 203

SEQ ID NO:2406

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02775

SEQUENCE DESCRIPTION:

GATCTCTGAT GGATTTGTTG ACTCCTCTGT GGGAGAAAGG CTTGGTCTAC TGCAGGTGTT 60
AACGCTAAGC CAGGCTGGAG CTGCGGACGT NAGTTTCCTC AGCNCCCCGC TGTCGCTTC 120
GAACGTNACC TCGACGTCTG CTCTCCCTT CCCTTTAGCT GACAATGTGA CAGTNCTTGA 180
ATAAAAGTNA GTCTGACAGG AAA 203

SEQ ID NO:2407

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02776

SEQUENCE DESCRIPTION:

GATCTGAATG TGAATTCTA ATTGTATCAG ACGTTAATGT TTAAAGCTA TAACAAAGTT 60
TAAATTTCT ACTTTTGT TTTNATTAT TTAACTGTT CTTTATCTA TTAAATTGTT 120
GTATGTGGAT GGGGAAGTTT TGTTCCTCCT CTTAGCATTT GTTCTATAA CCAGAAATAA 180
AATTCTATAT TAAAGAAATG ACAA 205

SEQ ID NO:2408

SEQUENCE LENGTH:201

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02777

SEQUENCE DESCRIPTION:

GATCCCAATC TGAGAAAAGG CAAAAGAATG GCTACTTTTT TCTATGCTGG NGTATTTTCT 60
AATAATCCTG CTTGACCCTT ATCTGACCTC TTTGGAACT ATAACATAGC TGTACAGTA 120
TAGTCACAAT CCACAAATGA TGCAGGTGCA AATGGTTTAT AGCCCTGTGA AGTTCTTAAA 180
GTTTAGAGGC TAACTTACAG N 201

SEQ ID NO:2409

SEQUENCE LENGTH:200

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02778

SEQUENCE DESCRIPTION:

GATCTTTAAC TGCCTGCTGA TAAGATATTG GGCCAACCTGA AAATAGAAAT TGTTCTTTCT 60
TAGAAATATT TTAATGCTAA CTTGTTAGTT TTCCTCAGAA AGCTAGTATT TGAAGCCATT 120
CGAGTTTAAAG ATNCTCTAAT TTCAATAAAA TAGCTTCCAA ATATTTAAAA TGTAATAAAA 180
TATATGTTTG ACACTCTAAA 200

SEQ ID NO:2410

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02779

SEQUENCE DESCRIPTION:

GATCAAAACG CTCCATCTTT TTACAGTGGC ATAGGAAGAC GGCAAAAATT TCCTAAAGTG 60
CAATAGATTT TCAAGTGTAT TGTGCCTTGT TCTAAAACCT TTATTAAGTA GGTGCACTTG 120
ACAGTATTGA GGTCAANNNN TATGGTGCTA TTTCANTNAG TCTAGGTTTA GGCCCTTGTA 180
CATNTTGCCC ATAACNN 198

SEQ ID NO:2411

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02780

SEQUENCE DESCRIPTION:

GATCTGCCCC TTGCTGAAAC TTCAGTACTT AAGTCCCCTA TTATNATTGT ATGGCAATCT 60
 ATCTGTCCAC TCAGAAGTTA TTATATTTGT TTTATATGAT TGAGCACTTC TGT TTTGGGT 120
 ATATATGTAT TTACAATNAC TATAACCTCT TGCTGAATTA ACCCCTNTTA CCATTATGTA 180
 ATAAACTTAT TTCCCAA 198

SEQ ID NO:2412

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02781

SEQUENCE DESCRIPTION:

GATCTTGAAT CACTTGACAG TGTTTGTTNG AATTGTGTTN GTTTTNCCT TTGATGGGCT 60
 TAAAAGAAAT NATCCAAAGG GAGAAAGAGC AGTATGCCAC TTCTTAAAC AGAACAAAAC 120
 AAAAAAGAA AATTGGGCTC TTTCTAATC CAAAGGGTAT ATTTNCAGCA TGCTTGACTT 180
 TACCAATNCT GATGACAN 198

SEQ ID NO:2413

SEQUENCE LENGTH:359

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02782

SEQUENCE DESCRIPTION:

GATCCAAAGT AACTAAACAG GAGCCACAA GACGGTCTGC CAGATTGTCA GCGAAACCTG 60
 CTCCACCAA ACCTGAACCC AAACCAAGAA AAACATCTGC TAAGAAAGAA CCTGGAGCAA 120
 AGATTAGCAG AGGTGCTAAA GGAAGAAGG AGGAAAAGCA GGAAGCTGGA AAGGANGGCA 180
 CAGAAAAC TG NTTCTGTAGA TAACGTGGGA GAATGANTTG TCATGAAAAT TTGGTGGTTG 240
 ATTTTTTTGT NTGCTTGGG ACAACTTTTA AANGCTATTT TTNCANGTN TTTTNGTNN 300
 TTGGTTTTTT TTTAGGGNT CTNCTTGTG GCATNCGNA GTTTTTTANG GTTGGNCN 359

SEQ ID NO:2414

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02783

SEQUENCE DESCRIPTION:

GATCCCAGGG GTGCACATGG GCCCCTTGGG TGTCTGAACA GAAGGGCATG GNAGGAAGGG 60
 CTGCACCCCT GCAGTCTTAC TCTGCTGGTG TAGCGGGCAG CTGCCCACTC CCACCCACC 120
 CTGCACCGCG GGCTCCTNAG TCGGCAGATT AAGCATTNA TAAATTGTAT TTTAAATACA 180
 TGTTTTAAAC TTGTCAA 198

SEQ ID NO:2415

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02785

SEQUENCE DESCRIPTION:

GATCCCATCC ATCAGCTCCC TTTTCTTTT CCCTTGAAC GTTCTGGCCT CAGACCAACT 60
CTCTCCNNNN NTAATCTCTC TCCTGTATAA CCCACCTTG CCAAGCTTC TTCTACAACC 120
AGAGCCCCC ACAATGATGA TTAACACCT GACACATCTT GCANAAA 167

SEQ ID NO:2416

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02786

SEQUENCE DESCRIPTION:

GATCTGTGAT TGGNTGGTTA ATGGGAAACG GTTTTTNCT TTGGCTGCAG GTGTTCTGCT 60
GATATCAACA GCTTCCTAT TTTNAATGCA GAAACAGGG TCTGGACAT TAGTCGTTAT 120
ATTNACTTG AAAAGAAAGA AACCAAGTGC GCTTGCAAT ATTTATTACA CAAAGAACTT 180
GCTGCTGCAT TCTAAA 196

SEQ ID NO:2417

SEQUENCE LENGTH:194

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02787

SEQUENCE DESCRIPTION:

GATCACAGAT TTCCTGCCA GGGTGTCTGT GGTATCAGC TGCAGGCTCA GCTNGGGTCG 60
GCCGNTTAC ACAAGCCACT CTGTACCAG TGCCCTACCT TAGTGACGGG AGTAAGGAGC 120
TTCCTTCCCC TCCATGTCAT TCCTNCCTGT TCCNTNCATT CCCCAACAGC AAATAAACT 180
GTTGAATGCT CAAA 194

SEQ ID NO:2418

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02788

SEQUENCE DESCRIPTION:

GATCTTCTTA CGCACAACAC AACGTCAGT TAATGTTCCA TCCATGCTGC TTAAAGAGCA 60
TTCCTGTCCT AGTAAATGG GCAAGTCCCT CTACCCCCA CCCTCACCTG GTATGCTTAC 120
ATTAATAGCT AAAGTCAATC CTGTAATGAA ATAAAGCAAG TGGTAGCTGT CTGGTAGCCT 180
CCACTACTGC AAA 193

SEQ ID NO:2419

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS02789

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGA CTTGAGGATA 60
ACCTGCACTG GTCTACCTTC TGCTTCCTG GAAAGGATGA ATTTACATCA TTTGACAAGC 120
CTATTTTCAA GTTATTTGTT GTTGTGTTGC TTGTTTTNT TTTTGCAGCT AAAATAAAAA 180
TTCAAATAC AAA 193

SEQ ID NO:2420

SEQUENCE LENGTH:192

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02790

SEQUENCE DESCRIPTION:

GATCAGACCT CAATAATTTT ATACTGTAAT AAGCTCTTG AATGTNTATA TTATTATTTT 60
TNACAATCAT TTCATTTTGT ATTTAATATC AATGGACTGA GTCTGATTCA GAAAATAATT 120
GTAATGTTCA TATTCAATAT CTTACAGTGA TACAGTTTG TATTACATA TAAATATACC 180
GACATGACCA AA 192

SEQ ID NO:2421

SEQUENCE LENGTH:276

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02791

SEQUENCE DESCRIPTION:

GATCAGGGTT TCAAGAATGA CTGCAGTGGG TTTTGAAAC AGACTTATCA TTATTGATTT 60
GAGGTTTCCC AGAGATATAG TTCACAGTTA ATTGTTGCGC TCTAATACAA CTGACCATTT 120
AAAATTGAAC AAGTTTATTG TTTTGTAAAC ATGTCAGTTG TTAAACCTTG NCATTTCAT 180
TAAACATGA NTGTAGTTA TAACTCANTG CAANTNCAAC AGTTGTATTT GGNGTTAANT 240
TATTTTCACA CGTNNCTTTN TTTTCATGGAN NNCCCN 276

SEQ ID NO:2422

SEQUENCE LENGTH:191

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02792

SEQUENCE DESCRIPTION:

GATCTTTTAT TTTCTCATT TTTATACTT CAGACTTGGG CCCCTGTTC TTTCTTCCC 60
ATTAACCTGA GTGACCTGTG TGAGAGACAG ACAGATGCC CACGAGGATG GCTGGACAAG 120
GACTTTTACT TTTTATTACA TAAAAATATT AAAAAATAAA TAAAAAAAT AAAATTTTAA 180
ACTAACTTAA A 191

SEQ ID NO:2423

SEQUENCE LENGTH:189

SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear
 CLONE:HUMGS02793
 SEQUENCE DESCRIPTION:
 5 GATCGGAATG CGGGGTCGAG AGCTGATGGG CGGCATTGGG AAAACCATGA TGCAGAGTGG 60
 CGGCACCTTT GGCACATTCA TGGCCATTGG GATGGGCATC CGATGCTAAC CATGGTTGCC 120
 AACTACATCT GTCCCTNCCC ATCAATCCCA GCCCATGTAC TAATAAAAGA AAGTCTTTGA 180
 GTAGTCAAA 189
 10
 SEQ ID NO:2424
 SEQUENCE LENGTH:187
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 15 CLONE:HUMGS02794
 SEQUENCE DESCRIPTION:
 GATCGAGACC ATCCTGGCTA AAACGCCTGG AATGCAGTGG CACAATCACT GCTCACTGCA 60
 GCCTTGACCG TNTGGACTCA AGTAATTCTC CTACTTCAAC CTCCCAAGTA GCTGGGACTA 120
 CAGTCATGCA CCATCATGCC TATAAGATA ATTTAATTTA TAATAAATNA TTTATACAAA 180
 20 CAATAAA 187
 SEQ ID NO:2425
 SEQUENCE LENGTH:187
 25 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02795
 SEQUENCE DESCRIPTION:
 GATCAATCGT GCATCCTNAG TGAACCTCTG TTGTCCTCAA GCATGGTCTN NNTACTTGTG 60
 30 AACTATGGTG TTCAGTTTGG CCTCTGTTAG AAATTCACAC TGTGTTGTA ATNATGTGGA 120
 ACTCCTCTAA AANTTACAGT ATTGTCTGTG AAGGTATCTA TACTAATAAA AAAGCATGTG 180
 TAGNAAA 187
 35
 SEQ ID NO:2426
 SEQUENCE LENGTH:185
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02796
 40 SEQUENCE DESCRIPTION:
 GATCNCGTTT TNAACCCGNT CCTGCCCCAC CTGCCCTATA GTTATGGCCT GTGTTCTGCT 60
 CTCCTGGTCC CAGTGACCG TCTGCTCTGT GAACTCCTCC CACCAGGCCC TTCTTACCCC 120
 ACGCGTGTCT GTCCCCNTCG TTCTGTAGCG GNGGTACAT AATAAAACAA TGGNGTGGNG 180
 45 ACAAA 185
 SEQ ID NO:2427
 SEQUENCE LENGTH:181
 SEQUENCE TYPE:nucleic acid
 50 TOPOLOGY:linear
 55

CLONE:HUMGS02797

SEQUENCE DESCRIPTION:

5 GATCTATGTT TTCTGAAAAT AATGGTTAA TGGAA GTTAT CTAATATATT TNAACTGTTC 60
 CTGTTAAAAA CAATAGGCTT CAAGATGACA TAACACCAAA TCAAAAATNA CCAAAGGAAT 120
 CATT TTGTTT GTTAGATTG TAATTTAGCA TCATTGGCAA TAAATCTACT CAAACGTTAA 180
 A 181

SEQ ID NO:2428

10 SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02798

SEQUENCE DESCRIPTION:

15 GATCCCAAAG GGGTTGGAGG CAGGGAATAT TTGAAAATTC AGACTGGAAT TCCAGGCCAA 60
 AAGCTCAAGA CCACCAGCCT CTCCTCCTGC CTGGAAAAAT AAGCCTTTGT GAAAGACTGA 120
 TTTACCATGT ACAATTGTGA TTGTGAACGT TGTGAGTAA ACCTCCAGAC TTTCTCTAAA 180

20 SEQ ID NO:2429

SEQUENCE LENGTH:186

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02799

SEQUENCE DESCRIPTION:

25 GATCATAAGT NAAAAATGTA TTTAATATAC CTAACCTACC AAACATCATA GCTTAGCCTA 60
 GCCTGCCTTA AACATGCTCA GAACACTTAC ATTAGCCTAC AGTGGGCAAA ACTATCCAAC 120
 ACAAATCTA TATTGTAATA AAGTTATAAA GANTTTTGAA TAAAANTTCA ATATTTGANG 180
 30 TACAAA 186

SEQ ID NO:2430

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02800

SEQUENCE DESCRIPTION:

35 GATCTGGTGG AGGGAAGTGA AGATGAAGGC CTCTCAGGCA CCATGGATGG NATGGGTGTG 60
 40 TGTNAAGGGG GCAGGGTCCC CAGGAGCTGC CCCAGGTCTG GCTNGACAGT TGCACGGNAA 120
 GTCCTGTTTG TAAACTCAAC GTTCCACGN CTTTCCATT AAAC TTACC CCAAATCAAA 180

SEQ ID NO:2431

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02801

SEQUENCE DESCRIPTION:

50 GATCTATTTT TCCTAAAACA TTCCCTCCC CACTCCTCTC CCACAGAGTG CTNNNTGTT 60

55

CCAGGCCCTC CAGTGGGCTG ATGCTGGGAC CCTTAGGATG GGGCTCCCAG CTCCTTTCTC 120
CTGTGAATNG AGGCAGAGAC CTCCAATAAA GTGCCTTCTG GGCTTTTCTG AACCTTTAAA 180

5 SEQ ID NO:2432
SEQUENCE LENGTH:179
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS02802
SEQUENCE DESCRIPTION:
GATCTTCACC AATGGCAAGT GGAATGACAG GGCTTGTGGA GAAAAGCANN TTGTGGTCTG 60
CGAGTTCTGA GCCAACTGGG GTGGGTGGGG CAGTGCTTGG CCCAGGAGTT TGGCCAGAAG 120
TCAAGGCTTA GACCCTCATG CTGCCAATAT CCTAATAAAA AGGTGACCAT CTGTGCAAA 179

15 SEQ ID NO:2433
SEQUENCE LENGTH:273
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS02803
SEQUENCE DESCRIPTION:
GATCTAAAA TTCAATGCAA ATATCTTTTA TTGGTAGTT TTGTCTACAT ATTNATGCT 60
CTAGCATGTG CAATATATCT TTGTAAAGCA CGATGATACA AATCTGGTGC CAGTGTTATA 120
25 TTTNGCATAA CATATTTGTA ACAGCATAAA ATATTGTTG ATGATTTCAG TGGGATTTTG 180
TCTATAATGT TTTCTTATGT AAATNGGAGT TGAATGACTC TGGTAAATGT CATGACTGTA 240
AAANTGGGGA AANTGACTTT NAGTTCAGTG AAN 273

30 SEQ ID NO:2434
SEQUENCE LENGTH:178
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02804
35 SEQUENCE DESCRIPTION:
GATCCAAACT AATTTTACAT TAAAAAATA AGTTAACTA AACTTCTTTA CTGCTGATAT 60
GTTTCCTGTA TTCTAGAAAA ATTTNACAC TTTCACATTA TTTTGTACA CTTTCCCCAT 120
GTTAAGGGAT GATGGCTTTT ATAAATNTGT ATTCATTAAA TGTTACTTTA AAAATAAA 178

40 SEQ ID NO:2435
SEQUENCE LENGTH:176
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
45 CLONE:HUMGS02805
SEQUENCE DESCRIPTION:
GATCTAAAAA AAATATTGTT AAAAGCATT CCTCTAGGGA ATGGGATTTA GATTTAAAA 60
GGGTGGGATG GGAACTGTG TTTTCATTT TAAGTCCTTC TGTACTANNT AATTTGTNAC 120
50 CTTGTGCATG TATTACTTTG AAAAAATTTT TAATAAACCC AAATAAAANT CTAAAA 176

55

SEQ ID NO:2436

SEQUENCE LENGTH:175

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02806

SEQUENCE DESCRIPTION:

GATCANCCCT CAAGGGCACA TGCCAAGGGC AGAGCAGCCC ATNTAGACAG CTTCGNAGGG 60

CATGGGGGTG TAGGGAGTTC GGGGTAGCTC CTCATTAACT ATTTGTNGGN TGAGTAAAGG 120

GGTGAGGCTC AGTGGCAGGT ACCTCTNCAA TNACAAGCTG CCNCCCCTCT ATGTN 175

SEQ ID NO:2437

SEQUENCE LENGTH:175

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02807

SEQUENCE DESCRIPTION:

GATCGGCAGC AAGAGTAAAG ACACAGCTCC AGAGGCCAC ACTGTGGGGT CTGGGCCCTG 60

CCTTAGGCAG CCCCCCTCTT TGGCCCCCTC CTGTCAGGCC CAGGGCTTGG AGTGAAAGTN 120

ACTCTCAGGT GGTGGGGTGG GGAATGTGAA TAAACATGAT TTCTTGCCGG GCAA 175

SEQ ID NO:2438

SEQUENCE LENGTH:174

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02808

SEQUENCE DESCRIPTION:

GATCCCTTCA CTGGCCCCCT CGGGAGNCCT GGGTTGGACT CAGGGNCTCC NCCAGCTGGG 60

GNGGNGGACC GCAGCACCTA TCTGAGCAGT TAGAGCGTCT TTTTTCAG ATTGTGTACA 120

GTAGATTATT TATTTGTNA TTTTGAATA AAATTATTT TATGGCTTAG GAAA 174

SEQ ID NO:2439

SEQUENCE LENGTH:172

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02809

SEQUENCE DESCRIPTION:

GATCTTGTCT GAAATGCTAG TTTCTGACTA CAAAACTAC AGGACATAGT AGATATGCTC 60

AGTAGAGCTG CTTAAATAA TTCCCTTTT TTTCTGTTG AATTCTGTTA CAAAACCAGG 120

TCTGTGTTAT AATAGAAANC ACACTTATGA ATAAAAATCT TAAAAATTA AA 172

SEQ ID NO:2440

SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02810

SEQUENCE DESCRIPTION:

GATCAATGTC CCTGGTTACC TATGTGTTTG AATTATCTTC GTGTTACAGG TGTTTAATGA 60
 TTTNCTCCT TCTAGCTTAT TTGTATTTC CCTGTTTTTC TTAAATNAA CATGGTTACA 120
 CTNTGTTTCA GCAACTGTAT AAATTAAACA CAGATNATTA CTA CTGCTAA A 171

SEQ ID NO:2441

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02811

SEQUENCE DESCRIPTION:

GATCGTAAAA TTTAAGCAC TAAAAATTTT TTCATAACCT TTCATAATAA AGTTTAATAA 60
 TAGGTTTATT AACTGAATTT CATTAGTTTT TTTAAAGTGT TTTTGGTTTG TGTATATATA 120
 CATATACAAA TACAACATTT ACAATAAATA AAATACTTGA AATTCTCAAA 170

SEQ ID NO:2442

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02812

SEQUENCE DESCRIPTION:

GATCTACTTT GAATTCACA CTCTCATTAA TAAATTGANT AAAAGGGAAT ATTTTGGCAC 60
 CTGATATAAT CTGCCAGGCT ATGTGACAGT AGGAAGGAAT GGTTCCTT AACANGCCCA 120
 ATGCACCTGGT CTGACTTTAT AAATNATTTA ATAAATGAA CTATTATCAA ATAAACGTA 180
 TGATTCAGTC CTAAA 196

SEQ ID NO:2443

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02813

SEQUENCE DESCRIPTION:

GATCAAAATTT TTTTCTTGCA ATNATGTGAT GAGTTGCCAA ATAATTGANA TTATTTTAAA 60
 ATGTTTTTGT CATATCTTG TTTTATAATT AAAATTTACA TTCAGTGTGT ATGGGTTTTT 120
 TTTTNATTTT NACTCTTAAT GTAAGGTGGA TATTNCTGTN ATTTTACATG GTTCTTACT 180
 GAGATTTTAT ATATAANTNA TAAAANGTTT ACCAAA 216

SEQ ID NO:2444

SEQUENCE LENGTH:173

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02814

SEQUENCE DESCRIPTION:

GATCGTTAAT GCCCTTGAAG TGGTTTTTGT GGGTGTGAAC AAATGGTGAG AATTTGAATT 60
 GGTCCCTCCT ATNATAGTAT TGAAATAAAG TCTACTTAAT TTATCAAGTC ATGTTTCATGC 120

CCTGATTTTA TATACTTGTA TCTATCAATA AACATTGTGA TACTTGATGT AAA 173

SEQ ID NO:2445

SEQUENCE LENGTH:223

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02815

SEQUENCE DESCRIPTION:

GATCAGCTCC GTGGGGCTGG TTTTGGTCCA CAGCATAACA GGCAGTGCCT CCTTACCTGT 60
GAGGAATGCA AAATAAGCA TGGATTAAGT GAGAAGGGAG ACTCTCAGCC TTCAGCTTCC 120
TAAATTCTGT GTCTGTGACT TTCGAAGTTT TTAAACCTC TGAATTGTA CACATTTAAA 180
ATTCAAGTG TACTTTAAAA TAAAATACTT CTAATGGAAC AAA 223

SEQ ID NO:2446

SEQUENCE LENGTH:168

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02816

SEQUENCE DESCRIPTION:

GATCTGTCAC TTTGTATAAA AACAAGAAAC GATTAGTTCA TTAACTTTT TCTTTACCTT 60
CTGGTAGTAA AAATAGATAA AATAATCCG TNTCACTAC TGTGTGTAAG AAGCCTGTAT 120
CATATGTAAC TGGGACTTTT GTAAATAAAT NTTTTGCGC TCTGCAAA 168

SEQ ID NO:2447

SEQUENCE LENGTH:168

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02817

SEQUENCE DESCRIPTION:

GATCATAAAA TGTATCTTTT CCATGGCCAA CAAGGNGCAT CTNTTATAAA TGCATAATAA 60
CCCAGTTNGT ATCAAAGGGT ATCGACTTAA GTGAAATTC AACATGCTGT TACTTTTTCC 120
TTTAAATGTA ATNCTGTTTT CCAAATAAAT GGGGGAGACA AATGGAAA 168

SEQ ID NO:2448

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02818

SEQUENCE DESCRIPTION:

GATCTGTGCA ATAAAGTGTT TGCAGTCTTA TTATTCTCTA AGAAATTCCT TATGGACGTC 60
ATAATTGTTG TATATTGAAC AAAATATTTA TACTTATGCA GTTGCAATAC ATTGAAATAA 120
AAATTAGCA TGAAA 135

SEQ ID NO:2449

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02819

5 SEQUENCE DESCRIPTION:

GATCCTGCCA GAAATTTCA AAGACAGTAG ATTGAAAAGG AAAGGCTTGG TAAAAAAGGT 60
TCAGGCATTC CTAGCCGAGT GTGACACAGT GGAGCAGAAC ATCTGCCAGG AGACTGNGCG 120
GCTGCAGTCT ACAAACCTTG CCCTGGCCGA GTGAGGTGTA GCAGCAN 167

10 SEQ ID NO:2450

SEQUENCE LENGTH:167

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS02820

SEQUENCE DESCRIPTION:

GATCAGNAGG CATCACTGAG GCCAGGAGCT CTGCCCATGA ACCTGTATCC CACGTACTCC 60
AACTTCCATT CCTCGCCCTG CCCCCGGAGC CGAGTCCTGT ATCAGCCCTT TATCCTCACA 120
CGCTTTTCTA CAATGGCATT CAATAAAGTG CACGTGTTTC TGGTAAA 167

20

SEQ ID NO:2451

SEQUENCE LENGTH:413

SEQUENCE TYPE:nucleic acid

25 TOPOLOGY:linear

CLONE:HUMGS02821

SEQUENCE DESCRIPTION:

GATCCGGTTT CTTTTTGCTC GCCCCTGTTT TTTGTAGAAT CTCTTCATGC TTGACATACC 60
TACCAGTATT ATTCCCGACG ACACATATAC ATATGAGAAT ATACCTTATT TATTTTGTG 120
30 TAGGTGCTG CCTTCACAAA TGTCATTGTC TACTCCTAGA AGAACCAAAT ACCTCAATTT 180
TTGTTTTTGA GTACTGTACT ATCCTGTAAA TATATCTTAA GCAGGTTTGT TTTCAGCACT 240
GATGGAAAAT ACCAGTGTG GGTTTTTTTT TAGTTGCCAA CAGTTGTATG TTTGCTGATT 300
ATTTATGACC TGAATAAATA TATTTNGTNC TTCTAAGANG ACATTTTGT ACATAAGGGG 360
35 ATGGCCTTTT TTATACAANG GGAATAANAT TNTGGGCATT TCCTATGGAGGGCATT TCCTATGGAA AAA 413

SEQ ID NO:2452

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

40 TOPOLOGY:linear

CLONE:HUMGS02822

SEQUENCE DESCRIPTION:

GATCTGTNAT TGGCATCTTG GTTCTACCTT TTATCAGATG TTGTTGCCTT GTGCAATNA 60
45 CATTTTCTCT GAGTCTCCAT TTTCTCATTT ATAACATGCG GAGAATAATA CTTATATTTG 120
TGGTAGTAGT GTGAACATTA AAAAGATAAT GTATGTGAAG TACAAA 166

SEQ ID NO:2453

SEQUENCE LENGTH:165

SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS02823

SEQUENCE DESCRIPTION:

GATCCATGCT AATATTGTAT TTTTNTTAA AACATAGCTT TCCTGTAATT TAAAGTGCTT 60
 TTATGAAAAT ATTTGTAATT AATTATATAT AGTTGGAAAT AGCAGTAAGC TTTCCCATTA 120
 TAATATATTT TGNTATACAA ATAAAATTG AACTGAAGTC TGAAA 165

SEQ ID NO:2454

SEQUENCE LENGTH:164

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02824

SEQUENCE DESCRIPTION:

GATCTTGTTA GAAGGCAGTA GGTCTGGGGT GGGGCCTGAG ATTCTGCATT TCTAACCAGG 60
 TCCTGGGAGA TGCTGATGCT ATCGAGCCAC AACCACACTT TGAGTAGCAA GCCTCTGGCC 120
 TATCCTTANN NNTTGAATA TTAAATGCT GCCTCTCAGT CAAA 164

SEQ ID NO:2455

SEQUENCE LENGTH:164

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02825

SEQUENCE DESCRIPTION:

GATCAATGCC AGATTTTNTT NTTGGGGTAA GTTAGCTGAA GTCATTTAAA GATGGAAAGG 60
 TGGGAAAATN CTTTGATATT TGATGTCATT GTATCCACAT TTNTTGTAAG ACATATTGCA 120
 TACCANTTAT AATNATATCA ATTAAAGTTG ATAAAAGCTT CAAA 164

SEQ ID NO:2456

SEQUENCE LENGTH:164

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02826

SEQUENCE DESCRIPTION:

GATCCCTTCT GCCCTGGCAG AATGGCAGGG GTAATCTNAG CCTTCTNCAN TCCTTTACCC 60
 TAGCTGACCC CTTACCTCT CCCCTCCCT TTNCCTTTGT NTTGGGATTC AGAAAACTGC 120
 TTGTAAGAGA CTGTTTATNT TTAATNAAAA ATATAAGGCT TAAA 164

SEQ ID NO:2457

SEQUENCE LENGTH:162

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02827

SEQUENCE DESCRIPTION:

GATCCAGAAT ATTTTCATTT AAAGCTCAAC CATTAATTGG AACATGGTGA AACATTGTAC 60
 ACATTGTAAG AGTAGGGAAC AGTACAAAAG AATGGAATCA AATACTATAT TATGTGAATA 120

ANCTAGAGTG ATTTTGAAT TTCACTCTCT TCACCCCTTA AA

162

SEQ ID NO:2458

SEQUENCE LENGTH:161

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02828

SEQUENCE DESCRIPTION:

GATCAAAAAC CTCTATAGTA GCCACTAGGG CAAAAACTGT GTGTATGTGT GTGTGTAAGT 60
 GTGTGTACAC TGTCAATAT GGTCAATAT GGTACCAATA GCCACATGTG ACTATTAAAA 120
 TTCATTGCAA TGNAATAAAA TTAAAGGTAT ACTAGCTCAA A 161

SEQ ID NO:2459

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02829

SEQUENCE DESCRIPTION:

GATCTTCACC TCTCTGCCTC CCTACTGCCC CAACATAGCC TTGAGGAGGN TTCTCAGCCA 60
 CCAAGGGTT CTGGCCCTT CTCACTCTCC TCTCCTCTCA GATGGAAGTC TGGTTATAAT 120
 GGTGTTAGTT ATCGAATAAAA AACGACTTCA GAATGCAAA 159

SEQ ID NO:2460

SEQUENCE LENGTH:159

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02830

SEQUENCE DESCRIPTION:

GATCAATTTA AAATATTNA TTTCTTAAAA GCCTTTTTTG CCTGTTGTAA TGTGCAGGAC 60
 CCTTCTCCTT TCATGGGAGA GACAGGTAGT TACCTGAATA TAGGTTGAAA AGGTTATGTA 120
 AAAAGAAATT ATAATAAAG GGATACTTG CTTTCAAA 159

SEQ ID NO:2461

SEQUENCE LENGTH:158

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02831

SEQUENCE DESCRIPTION:

GATCTATTTA ATTTGAGGTT GATGTTCTAT CCAATGGCCG AAGATAGCAG CAGGTTTTTT 60
 TTTTCATATG TTGATTGTT TCATTGGAT TTTTTTTTA TNATNCTTNA TTGTCTTTTT 120
 TTTNCCCAT CCCTGTCTTG NGATTTNCNG GCATGTTN 158

SEQ ID NO:2462

SEQUENCE LENGTH:256

SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS02832

SEQUENCE DESCRIPTION:

5 GATCTGAAAT GTGATGATTA TTGGAATGCA TAAACATTGA CGTATTTTGG AATGTATTAA 60
AACTGAAATG GATAAAATTT AGTATATATG TTTATTTTGT TCTATCTCCT TTGTTGTAT 120
TTTTCTCTGC AGTATTAAAC ATTTGGAAGA GACTAAAGGT ATGCAAAANT AATGTCTTAT 180
TTTCATTATG TGTGCTTCCA TTGACACAT GGGAAATTAG ATTAATTCA CTATTAANTA 240
GNACTTTATA CAGAAA 256

SEQ ID NO:2463

SEQUENCE LENGTH:156

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

15 CLONE:HUMGS02833

SEQUENCE DESCRIPTION:

20 GATCTTGTGT CTA CTCTAGG ACTGGGCCCC AGGGTGGTTT ACCTGCACCG TTGACTCAGT 60
ATAGTTTAAA AATCTGCCAC CTGCACAGGT ATTTTGTAAA GCAAAATAAG GTTTTCTTTT 120
TTCCCTTTC TTGTAATAAA TGATAAAAT CCGAAA 156

SEQ ID NO:2464

SEQUENCE LENGTH:156

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS02834

SEQUENCE DESCRIPTION:

30 GATCTTCTCC TTTGTGAAGC ATCCCTCACC ACTACTACTG TGATGGGTCG GGGCCTTTCA 60
TCTGTTTTTC CACAGCATCT ATGCTCTCNT NCACTGTATC ATTTATCAA TTGATNNTTN 120
CTGCGTCCTG TAAAAACAN NGAGTACCTT AAGAAA 156

SEQ ID NO:2465

SEQUENCE LENGTH:191

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02835

SEQUENCE DESCRIPTION:

40 GATCTGCATT TATCATGAGT TCCTTTTTTT TTTAACTTT ATTTTGGGA AAGTAACACA 60
TGANGTAGTT CAGTCATGTC AGGTTTGTCT GGGGTGGANT GGACCAGTCA GGTAGTTGAA 120
AGTTTTTTTT TAGNGATGAA AAGCTTGTGA NCNCCTGTAA ANCATGCTGN ATTTGAAATN 180
CATCTGTTNA N 191

SEQ ID NO:2466

SEQUENCE LENGTH:155

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

50 CLONE:HUMGS02836

55

SEQUENCE DESCRIPTION:

GATCCACCCC CTGCCACAA AAAATTGCTC CTAATCCAC CGCCTATCCC AAACCTACAA 60
 GAACTAATGA TAATCCCACC ACCCTTTGCT GACTCTTTT GGACTCAGCC CACCTGCACC 120
 CAGGTGATTA AAAAGCTTTA TTGTCACAC ANAAA 155

SEQ ID NO:2467

SEQUENCE LENGTH:154

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02837

SEQUENCE DESCRIPTION:

GATCCTAGCA AATTGCCCCA ACCANCTTTA CTAAAGGGGG AGGAAGGGAG GGCAAAGGGA 60
 TGAGAAGACA AGTTTCCCAG AAGTGCCTGG TTCTTTTAC TTTCCCTTT GTGTCGTTN 120
 TTGTAGTTAA AGGAATTTAA TTTTAAAAA GAAA 154

SEQ ID NO:2468

SEQUENCE LENGTH:154

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02838

SEQUENCE DESCRIPTION:

GATCGGGCCT AGCCCGGCAA CACTAATGTA GAAACCTTTT TTTTACAGAG CCTAATTAAT 60
 AACTTAATGA CTGTNTACAT AGCAATGTGT GTGTATGTAT ATGTCTGTGA GCTATTAATG 120
 TTATTAATTT TCATAAAAGC TGGAAAGCAG CAAA 154

SEQ ID NO:2469

SEQUENCE LENGTH:153

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02839

SEQUENCE DESCRIPTION:

GATCACCCGG GGCTGTCTGC ATACAGACTT CTCAGGGGAG TTCTCAGCTT GGACCCTTAT 60
 CTCCCAGAA TCCTGGAACC TGCTCCTTCT GCTCTCGTGA CTGACTGTGT TCTCTATGCA 120
 ACTTCCAATA AAACCTCTTC ATTTGAAAGG AAA 153

SEQ ID NO:2470

SEQUENCE LENGTH:154

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02840

SEQUENCE DESCRIPTION:

GATCTTAAGC CCAGCTCTGT TCTGCCCCCG CTTTCTCTG TTTGATACTA TAAATTTTCT 60
 GGTTCCTTG GATTAGGGA TAGTGTCCCT CTCCATGTCC AGGAAACTTG TAACCACCCT 120
 TTTCTAACAG CAATAAAGAG GTGTNCTTGT CAAA 154

SEQ ID NO:2471
 SEQUENCE LENGTH:152
 SEQUENCE TYPE:nucleic acid
 5 TOPOLOGY:linear
 CLONE:HUMGS02843
 SEQUENCE DESCRIPTION:
 GATCACAGGC CTTGCTTTTG TAACAATGAT GACCCCGGCC TGTCTCATAT TCTGAAGAGG 60
 10 AAAAGTCAAA GTGTGCTGN GGCTCCATAT TTCAACTAAA AATATATCTG TTGGAGAAAG 120
 AAATTAACAA TAAAGAATTT TCATAGGTAA AA 152

SEQ ID NO:2472
 SEQUENCE LENGTH:151
 15 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02844
 SEQUENCE DESCRIPTION:
 GATCGTATTC CCTGCTTTAA GGAAGTNTA GNCTTGTTTG GGTGATGAGA CAAAGTTCTT 60
 20 GAGACATTTA AACTGTATTT ACCAGTGTA AAAATGTCAT TTATGGAGAT TAATTCATTA 120
 TGGAAATAAA ACATTGCCTA AGCCCTTGAA A 151

SEQ ID NO:2473
 25 SEQUENCE LENGTH:150
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02845
 SEQUENCE DESCRIPTION:
 30 GATCCAATCA GCTGTAAGTN TTAAGCACAG GGCTGAGGCT CCCTCCAAGT ACCCACTGGG 60
 AACAGCAGCT TCAACCTGAG CCCTGNGTCC CAGCCAGCCC CCACAATCAC CTATGCCCAT 120
 TCTTCAGAA ACATTGGATG CATGTGCAAA 150

35 SEQ ID NO:2474
 SEQUENCE LENGTH:149
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 40 CLONE:HUMGS02846
 SEQUENCE DESCRIPTION:
 GATCCAGAGA GTCTGAAGAC ATTTCTNATG CCTTTATATA TTGGAGAACC CTTCCTCCATT 60
 TTNATATCCT TTCTTCAAAA ATCTAAATNA TGTGCCTAAA AATAAGACAT GGCATAATAA 120
 45 GGTATAATTA AAGAGATAAT AGAATGAAA 149

50 SEQ ID NO:2475
 SEQUENCE LENGTH:153
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02847

SEQUENCE DESCRIPTION:

5 GATCCAGTAC CTGAAAGATT TGATAGAAGA GGTCCGCAAG GCAAGGGGGA AGAAAAGGGT 60
 CCCCTAGTTG AGGATAGTCA GGAGCGTCAA TGTGCTTGTA CATAGAGTGC TGTAGCTGTG 120
 TGTTC AATA AATTATTTG TAGGGAAAGT AAA 153

SEQ ID NO:2476

SEQUENCE LENGTH:147

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02848

SEQUENCE DESCRIPTION:

15 GATCCTTTT GAGTCAGACA GATGTGGTTG CATCCTAACT CCATGTCTCT GAGCATTAGA 60
 TTTCTCATTT GCCAATAATA ATACCTCCCT TAGAAGTTTG TTGTGAGGAT TAAATAATGT 120
 AAATAAAGAA CTAGCATAAC ACTCAA 147

SEQ ID NO:2477

SEQUENCE LENGTH:207

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02849

SEQUENCE DESCRIPTION:

25 GATCTCCAGT GATTGGCGAT TTGACCTGGT TTCTNCCTGG ACTATTTGAA TGGGTGGATT 60
 TGTGTTGCA TCTCTGTCT TCTTTCCTT TCCATTCTCC TNTATTNTN TATTACATA 120
 CTTGTATGCA ACTNTGTAAT CTGATTNCCC CATGTAACAT TTAATTGA NGGGTGGTCT 180
 GCGTGTNCAC TGGAAAACAT ATNTATN 207

SEQ ID NO:2478

SEQUENCE LENGTH:146

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS02850

SEQUENCE DESCRIPTION:

40 GATCGAGCTC ACAGGGGGCA CCCATCCTGN TAGTCAACAG AGTCTGAAGC AGTCAGGGTG 60
 TTGGATTCTT CTGTTGTTGT CATCAATTCC TGCTGAGGGG TTTCTGGGGT TTTGTTTTTA 120
 ATAAATAACT CTTTGTAGC CTAAA 146

SEQ ID NO:2479

SEQUENCE LENGTH:144

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02851

SEQUENCE DESCRIPTION:

50 GATCCCGGCC AGCCAGGTGA CCCCCACGCT CTGGATGTCT CTGCTCTGTT CCTTCCCCGA 60
 GCCCTGCCC CGGCTCCCCG CCAAAGCACC CCTGCCACT CGGGCTTCAT CCTGCACAAT 120
 AAATCCCGGA AGCAAGTCAG TAAA 144

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SEQ ID NO:2480
 SEQUENCE LENGTH:143
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02852
 SEQUENCE DESCRIPTION:
 GATCCAGGCA AATTCATGTT CTTTCTTTGT AACTCACTTT CTTCGTCAAC ATTTCTGTGA 60
 CTCAATGGAT AGCATATTTT CATCAAGTAG CACGTATAAC GTGATGCTTT CATGTTTCTG 120
 CCTTAAATAA AATAACCTC AAA 143

SEQ ID NO:2481
 SEQUENCE LENGTH:290
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02853
 SEQUENCE DESCRIPTION:
 GATCTCTTTG ACTGCTGTAG TACTAAAGTG TACTTAATGT TACTANGTTN AATGCCTGGC 60
 CATTTTCCAT TTATATATAT TTTTAAAGAG GCTAGAGTGC TTTTAGCCTT TTTTAAAAAC 120
 TCCATTTATA TTACATTTGT AACCATGATA CTTTAATCAG AAGCTTAGCC TTGAAATTGT 180
 GAACTCTTGG AAATGTTATT AGTGAAGTTC GCAACTAAAC TAAACCTGTA AAATTATGAT 240
 GATTGTATTC AAAAGNTTAA TGAAAANTAN ACATTTCTGT CCCCCTGAAA 290

SEQ ID NO:2482
 SEQUENCE LENGTH:143
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02854
 SEQUENCE DESCRIPTION:
 GATCTGATTG AGATGTACAT AGTTTTTTTT TTTACCATAA CTGAATTATT TNATCTCTTA 60
 TGTTAACATG AGAAATGTAT GCCAAATNAT TAGTTGATGT ATGTTTTTNA ATTAAATATT 120
 TAAATAAAAT ATTTGGAAGG AAA 143

SEQ ID NO:2483
 SEQUENCE LENGTH:269
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02855
 SEQUENCE DESCRIPTION:
 GATCCTTATC AGGGAGAGCA GGAATCCTTA TTCCCGGTGT CGCTAGTACT CATCTCTGCC 60
 GCCTCCTGTC TGCCCCCAGG CTGCTGCTNC TGCTGCCCTG TGGGTTGTGC CAAGTGTGCC 120
 CAGGGCTGCA TCTGCAAAGG GGCCTCGGAC AAGTGCAGCT GCTGCGCCTG ATGCTGGGAC 180
 AGCNCGCTCC NAGATGTAAA GAACGCGACT TCCACAAACC TGGNNTTNTT TATGANCAAC 240
 CCTGACNGTN ACCGTTTGCN ATATTNCNN 269

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5 SEQ ID NO:2484
SEQUENCE LENGTH:140
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02856
SEQUENCE DESCRIPTION:
GATCATACAT TTTATATGGT TGGGACTTCT CTCTTCGGGA GATGATATCT TGTTTAAGGA 60
10 GACCTCTTTT CAGTTCATCA AGTTCATCAG ATATTGAGT GCCCACTCTG TGCCCAAATA 120
AATATGAGCT GGGGATTAAA 140

15 SEQ ID NO:2485
SEQUENCE LENGTH:139
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02857
SEQUENCE DESCRIPTION:
GATCCAACCC CACCTCCTG GGTGCGGCCA GAGGCAAGGC AGTCGCCCGA GCTCCTGAAT 60
20 CCCAAGAATG GTTCTGGCAA GTACTGCTGT TTGTTGTAG GGGCAAAGAG TTAATAATAA 120
ACGAGGTCT GGCATGAAA 139

25 SEQ ID NO:2486
SEQUENCE LENGTH:139
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02858
SEQUENCE DESCRIPTION:
30 GATCTGCCGG CTCCTGCTCA GCCTGTGTGG AAAGGAGGCC CACGGGCACT AGGGANNCNG 60
AATTCTACAA TCCCGCTGGG GCGGCCGGGT CGGGAGAGAA AGGTGGTGCT NCAGTNGTGN 120
CCCTGGGGGG TCATTGAN 139

35 SEQ ID NO:2487
SEQUENCE LENGTH:138
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02859
40 SEQUENCE DESCRIPTION:
GATCTTCAAT GCCTCTGAGT CATTGTTATA AAAATCAGT TATCACTATA CCATGCTATA 60
GGAGACTGGG CAAAACCTGT ACAATGACAA CCCTGGAAGT TGCTTTTTTT AAAAAATAA 120
TAAATTTCTT AAATCAA 138

45 SEQ ID NO:2488
SEQUENCE LENGTH:231
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
50 CLONE:HUMGS02860

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SEQUENCE DESCRIPTION:

GATCATGGTT CTCCTTGAC GATAGTTGGG CATCTGTATT TCCACTTGTG TGAATTTGCC 60
 TTAAATTTT GGTATGGGT TTCACCTTTT AAAATAATCA AACATATTTA TCTTTTCCTG 120
 TGTGATAGGT TTTTNCCTGT ATCTTTTCCT GTTAAACACA CAGACCCCTC CCCAATCTGG 180
 ACATTGAATA CNTATTCATT TTCCTTTGCN NNAATANNCC NNANACANAC N 231

SEQ ID NO:2489

SEQUENCE LENGTH:137

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02861

SEQUENCE DESCRIPTION:

GATCTGCCCC TGCATTGTAG CTGCTTAAC GGAGCACTTC TCCTTTTCC AAAGGTCTAC 60
 ATTCTAGGGT GTGGGCTGAG TTCTTCTGTA AAGAGATGAA CGCAATGCCA ATAAAATTGA 120
 ACAAGAACAA TGATAAA 137

SEQ ID NO:2490

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02862

SEQUENCE DESCRIPTION:

GATCTTTAAA TTTTGAGACA GTATAAGGAA AATCTGGTTG GTGTCTTACA AGTGAGCTGA 60
 CACCATTTTT TATTCTGTGT ATTTAGAATG AAGTCTTGAA AAAAATTTA TAAAGACATC 120
 TTTAATCATT CAAA 135

SEQ ID NO:2491

SEQUENCE LENGTH:286

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02863

SEQUENCE DESCRIPTION:

GATCCAAATA TTTCAAGCC ATGTAATCCA TTGGTTTGT GGGCAGTTTA ATAAACCTGA 60
 ACCTTTGTGT GTTTCTAAT TGTACCTGAG TTGACCATCC TTCTTTTTA NAGTATATTT 120
 CTNGTATGAT ATTNTGTAAA GCTCTCACCT GGTCTTTTA TGGGGACTTT TCGTTTTTGG 180
 GCAACTGCAG TGTATTTATG TGAANCTTTA TANGAGAATT ANTTTTTCCA TGTGCATATT 240
 AATATGGTNC CTCCACACAT GGNNAGGGCA CAGTGGCTTC GTGTTN 286

SEQ ID NO:2492

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02864

SEQUENCE DESCRIPTION:

GATCATGCCT CTTTCCAACA CGTGTTCACA ATCTCCAAAG GGACTGTATT TNTNCTCTGT 60

GCTTAATNTG ATTTGAAATA TGTGAATCA AAGTGAAATA TTTATNTTTT GAATAAAGGA 120
GATAATAGCC TAAA 135

SEQ ID NO:2493
SEQUENCE LENGTH:135
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02865

SEQUENCE DESCRIPTION:
GATCGAAAAC AAACGNTAGA TAATNCCCAA GGAGCTTACC AAGAGGCATT TNATATAAGC 60
AAGAAAGAGA TGCAACCCAC ACACCCAATC CGCCTGGGGN TTGCTCTTAA CTTTCCNGTA 120
TTNACTATG AGATN 135

SEQ ID NO:2494
SEQUENCE LENGTH:135
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02866

SEQUENCE DESCRIPTION:
GATCATGCCA CTNCACTCAC ACTGACACTG CCTCGGACAA CAGAGCAANA CTNCATCTCA 60
AAAAACAACA AAAAAATCA CAGNCTCATT TTAAAGGAGC AGCAACCNA CAAATACAA 120
NCTTCATTG ACAAN 135

SEQ ID NO:2495
SEQUENCE LENGTH:134
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02867

SEQUENCE DESCRIPTION:
GATCATTAAC ATGCCAGGGC AGTTCCCACT GATTTAGATG GTCCAAGATA ATCTCATTCA 60
GGAGGCTTGA AACATTAATG GTTTAGTCTT GTGAATTTA ACAGTTCTCT GTCATCGTTT 120
AACAAAACCA ACAN 134

SEQ ID NO:2496
SEQUENCE LENGTH:134
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02868

SEQUENCE DESCRIPTION:
GATCATGCCA CTGGACTCTG TGCTGAGCAA CAGAGTTAGA CCTGTCTCT AAATAAATAA 60
ATAAACAAT AACAGTAAA AAAATGTATA GTTCAATCCT TATCTGTATT AAACCTCCTT 120
TAACTTGTGT GAAA 134

SEQ ID NO:2497
SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02869

SEQUENCE DESCRIPTION:

GATCACATGT GGGCCCGTGT CTGGCCGCCG CCGCCNGCC CCGTCCCTGC GGNACCACC 60
TAATTTATTG CCGTGCCTCC TGCTGCTGTG ACTGCTTTTG TACCTTTGCA ATAAAGAATT 120
TTCTGGTTTC AAA 133

SEQ ID NO:2498

SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02870

SEQUENCE DESCRIPTION:

GATCCTGGAC ATATTTTATA TTTATACCA ATATTTTATA TATTTNCTAC TGTGTCAAT 60
GGTAGTGGTT TTTAAATTTT CAAACATTCA TTACTAGTAT ATAGAAATAN AATCACTTTT 120
TAAAAATGTA AA 132

SEQ ID NO:2499

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02872

SEQUENCE DESCRIPTION:

GATCCTGTTT TTTCTTAACA AGTTGAGGCG TGGGTAGAGC AGGAATTGGT TTTCCAGCAT 60
TGTGTCCGTA AACCTGAGTT AGAATAAGAT GTAACGGAAG CCACGATAAA GACTCGGTCA 120
AATCCTGCAA A 131

SEQ ID NO:2500

SEQUENCE LENGTH:133

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02873

SEQUENCE DESCRIPTION:

GATCCTGGAT GGAACGGCT TCTTTATCGA GAAGAATATA ATTCTCCATG AGGACTTAAT 60
GAATCCAAAC CTGTGTCATG CCTGGTTTGC ATACCCAATT AAACACTNGA AATAAAAAATT 120
NTTNGGGTNN AAA 133

SEQ ID NO:2501

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02874

SEQUENCE DESCRIPTION:

GATCTCTGCT CTTTGTGAGA GATTGCAAA GACTCACGTT TTTNTTGTTC TCTCATCATT 60

CCATTGTGAT ACTAAGAAAC TAAGAAGCTT AATGAAAAGA AATAAAATGC CTATGTTGTT 120
GTTCTAGAAA 130

5 SEQ ID NO:2502
SEQUENCE LENGTH:130
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02875

10 SEQUENCE DESCRIPTION:
GATCAAAAAA GGCAGATGNA ANTACTTAAN ACTCAGTGTT TTGGAGAGAT TTCCTTTNAG 60
TTTGTGGTT GGCTGGTTTG AACGATAGAA ATATGCAGCA TGCAATATAT GCTTATATTT 120
NATTNAATN 130

15 SEQ ID NO:2503
SEQUENCE LENGTH:129
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02876

20 SEQUENCE DESCRIPTION:
GATCCCCCAC CTGGCAGAGG ACCCAGTACA AAATAGGCAC TCAATAGATG TTACACCAAC 60
TTTGAAGGG CAAACATATT TCTTAATGAG AGGCAGTCCT TCATGTTTTN CAATAAAATG 120
25 ACTTTTAAA 129

SEQ ID NO:2504
SEQUENCE LENGTH:129
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02877

30 SEQUENCE DESCRIPTION:
GATCTTCTCC GAGGCCACC GAAGGTACTG AAGAGCCTCA CCTGGGGGCA TTTGTGGGT 60
35 GGAGGGCCAG AGTGTGTATA CCCAGGCTTG TCTGGAAGGA GAAGGCCTTT GCTGCCTGAA 120
AGTCTCAAA 129

SEQ ID NO:2505
SEQUENCE LENGTH:129
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02878

40 SEQUENCE DESCRIPTION:
GATCTAAATA AGTGTTCAC GAAAGTTTT CCTAAGCAAA TGTAATATTA CCTCATTTGG 60
45 GCATCATTAC TCTGTTAATT CTATATCAAA GAAATAAAC TTGCTACTTG CACTAAATGA 120
AAAAACAAA 129

50 SEQ ID NO:2506
SEQUENCE LENGTH:128

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02879

SEQUENCE DESCRIPTION:

GATCGTGCCC CGGGGCGCCG GCCCCTGNAG GGGCTCACCT GGATGGGGCC TGCAGTGCGT 60
TCCCGCTTTG CTTCTTCCC TGGACGGCCC GCTCCCGAA ACGCGCGCAA TAAAGTGATT 120
CGCAGAAA 128

SEQ ID NO:2507

SEQUENCE LENGTH:127

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02880

SEQUENCE DESCRIPTION:

GATCACTCTT GTGGTTTGG GGGATGGCAT TATAAGAGAG GAGACTGGAN ACAGGGGGGC 60
TATTGTNATG CAGATTTGTT GGATGTCCAC CCAGCATTCA CTTTNNCCAT CTTTGGCCAG 120
GGGNNNN 127

SEQ ID NO:2508

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02881

SEQUENCE DESCRIPTION:

GATCCCACGC AGCGCTGAAC CGAACCAGAT AGGAAGCCTT TCTCCCCANG GCACGTGGCT 60
TCAGGGCGTT TCCCATTTGAC CAAGTTTGAC CCTGNTTGA ATAAAGAGAA GTGCGTTTGG 120
ATTAGAAA 128

SEQ ID NO:2509

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02882

SEQUENCE DESCRIPTION:

GATCGAGCTT CTCCTCTGAG TTCTAACAAA ATGGTGCTTT GAGGGTCAGC CNTTAGGAAG 60
GTGCAGCTTT GTTGTCCTTT GAGCTTTCTG TTATGTGCCT ATCCTAATAA ACTCTTAAAC 120
ACATTGAAA 129

SEQ ID NO:2510

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02883

SEQUENCE DESCRIPTION:

GATCTCTGAT TTAACCGTGT ACTATCCACA TGCATTACAA ACATTTGCA GAGCTGCTTA 60

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GATATATAAGC GTACAATGTA TGTAATAACC ATCTCATATT TAATTAAATG GTATAGAAGA 120
ACAAA 125

5 SEQ ID NO:2511
SEQUENCE LENGTH:124
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02884
10 SEQUENCE DESCRIPTION:
GATCTTCCAT CTCCTCAGCA AAAAAATAGG AGCCCTGGCC CCCCAACTTT TTNCANAGTA 60
ATAGCCTTAN TTCCTTCCCT ATCTCCTTAC CAAAGTACAN GTNACATCTT TCCCACCTTT 120
CNTN 124

15 SEQ ID NO:2512
SEQUENCE LENGTH:124
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
20 CLONE:HUMGS02885
SEQUENCE DESCRIPTION:
GATCTACAGA TTCAATGCAA TTNCTATTAA AATCTNATCT GGCTTTTTTT GCATAAGCAA 60
CAAAGGAAAA ANTAAGACAT CAAAATTNA AGANCTTTG TCCTACAAAC AATATCATGA 120
25 NGAN 124

SEQ ID NO:2513
SEQUENCE LENGTH:343
SEQUENCE TYPE:nucleic acid
30 TOPOLOGY:linear
CLONE:HUMGS02886
SEQUENCE DESCRIPTION:
GATCAGAAAA TTCATATTTA AGCAAAGTGA TACAAACACA GTGATTTGGG AATGCCTTCA 60
35 TTTACAATGC AATACTTAAA TTTAATACT CTTGTAGGAG AAAAAGCAAC TGTATAAATG 120
AATGTAGAGT GACTTTCTGC AATATTTCAA ACCTATATCA GAGAATTACA CTGTGGGAAA 180
NCTACCATTG TAATAAGTGT AGCAAAATCT CCTTAGATAT CTGAAAAGTC ATACTGGATG 240
GAATCTGTAG GAAACGGTTC TATTTTGAGG GAAGGGGGAT TCCTTTTTGT TTTTAAAGTG 300
AATTCAGAAA ATGTTATAAA TAANTCTTTT GGTTATTAT AAA 343

40 SEQ ID NO:2514
SEQUENCE LENGTH:123
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
45 CLONE:HUMGS02887
SEQUENCE DESCRIPTION:
GATCTNTACC CCACCCCTAT CTAACACCAC CCTTGGNTCC CACTCCAGCT CCCTGTATTG 60
ATATAACCTG TNAGGCTGGC TTGGTTAGGT TTNACTGGGG CAGAGGATAG GGAATCTNTN 120
50 ATN 123

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SEQ ID NO:2515
SEQUENCE LENGTH:121
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02888
SEQUENCE DESCRIPTION:
GATCCAAAAT TACCTTCCTA TTGCATTTCC TACTCCTTTG CTACGNGTAT TGGACCTCTG 60
GCCAAATNAC AAAAGATGTA CTCCTTGTC TCTAAAACCA CACTAAAGTT TTCTNACTNN 120
N 121

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20
SEQ ID NO:2516
SEQUENCE LENGTH:122
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02889
SEQUENCE DESCRIPTION:
GATCAACCAA CCTTAAATAT ATGTATGTAT ATATGTATAT GTGAAAAACA GTTTGTATAG 60
TTGGAATATT TGTNTTTGTA ATTACTTGTG ATGTTTTAAA ATAAANTTT TATTCAGTTA 120
AA 122

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SEQ ID NO:2517
SEQUENCE LENGTH:122
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02890
SEQUENCE DESCRIPTION:
GATCTGGCAC CCCCTGGGTG GAGTGTCCCT CGGGGGCTTT GGGAAAGCAT GGCACCCTCA 60
GACCACACAG TAGCCAAGTT CTGGAGCAAA TAAAAGGCCT GTGTTATNTC TTGTNCTTGA 120
AA 122

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SEQ ID NO:2518
SEQUENCE LENGTH:119
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02891
SEQUENCE DESCRIPTION:
GATCTCAAAG ATATGCACCA GTTTGAATAA ATGCTTGTTT AAAGATTAAA TTTTACAATT 60
CATTTTAAAT TNCATTTTG TGACAATATT TCTAAACAAC GNCCATTTTA ATNACCAAA 119

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SEQ ID NO:2519
SEQUENCE LENGTH:118
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02893

SEQUENCE DESCRIPTION:

GATCATAGGA TAGCTGACTT TGACAGTCAC ATTTATAAAG TAATTCACCTT AAAGATATAT 60
ATTTTTTTCA AACAAGTTT GCTACTTTTG AAAATAAATC TTTCTTTATA TTGCTAAA 118

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SEQ ID NO:2520

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02894

SEQUENCE DESCRIPTION:

GATCCAAACC CATCTTCCTG GACCTGAAGC TTATGCTTCC AGGCACCCCA CTCCTGAGCT 60
GAATAAAGAT GATTAAAGCT TAATAAATCG TGAATGTGTT CACATGAGTT TCCATAAA 118

15

SEQ ID NO:2521

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02895

SEQUENCE DESCRIPTION:

GATCTGCACA GTGTTATGGC ACCCTACTTC CTGCAGCAAC GGGACACNCT GCGGCGCCAT 60
GTNCAGAAAC AGGAGGCCGA GANCCAGCAG CTGGCAGATG CCGTCTTNC AGGGCGGN 118

25

SEQ ID NO:2522

SEQUENCE LENGTH:118

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30

CLONE:HUMGS02896

SEQUENCE DESCRIPTION:

GATCCTATCT TTNCTGGCAG GACTGGNAGC CATGGTGGGC TACGTTNTGN TCAGCGGCAT 60
TNTTCCATC CAGCGGGCAA CGCTGCTCGG GCCCCAGGCA CCCGGACCCT GGGCATGN 118

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SEQ ID NO:2523

SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02897

SEQUENCE DESCRIPTION:

GATCTAGTCC GGACTTGCTG TGTATATTGT AACGTTAAAT GAAAAAGAA CCCCCCTTTG 60
TATTATAGTC ATGCGGTCTT ATGTATGATN AACAGTTGAA TAATTTGTCC TCAGAAA 117

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SEQ ID NO:2524

SEQUENCE LENGTH:116

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02898

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SEQUENCE DESCRIPTION:

GATCGTNATT NAGAATCCAT GTGAATAGAC CTGCGATGGC CAAGGCTGTT TAAGCNACAC 60
 TGGGTTGGAA ACACTTGGGC TCTCTCATNA TTATTAAAT TCTATTCAA TCTAAA 116

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SEQ ID NO:2525

SEQUENCE LENGTH:116

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02899

SEQUENCE DESCRIPTION:

GATCCTTTGC NTTCAAGACT AAGTTAATAG AGAAGATGTT TGTAACNTG GCCCAAGCTT 60
 GGNTCCCG TGTATTGAAG CTAACCTCTT TNAGAAGCAC CACTCTCATA TATNAN 116

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SEQ ID NO:2526

SEQUENCE LENGTH:117

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02900

SEQUENCE DESCRIPTION:

GATCTCTGGG TAAAGAGGCC GTTATCTTT GTAAACACGA AACATTTTTC CTTTCTCCAG 60
 TTTTCTGTTA ATGGCGAAAG AATGGAAGCG AATAAAGTTT TACTGATTTT TGAGAAA 117

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SEQ ID NO:2527

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02901

SEQUENCE DESCRIPTION:

GATCTAGGAA GACTTTGGAA AGAGTAGGAA GACTTTGGAA AGACTTTTCC AACCCCTCATC 60
 ACCAACGTCT GTGCCATTTT NTATTTTACT AATAAAATTT AAAAGTNTTG TGAATCAAA 119

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SEQ ID NO:2528

SEQUENCE LENGTH:115

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02902

SEQUENCE DESCRIPTION:

GATCCCCAGG AGGCCTGGNC CGCCAGAGG CTCCTCTCAG GCTGGGCCCC GACGTTTGGC 60
 NCAGTGTTC TTGTGCCGT GGGCCCGGA GCNAGTAAAG TCTGGGCCAG GCAA 115

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SEQ ID NO:2529

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS02903

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SEQUENCE DESCRIPTION:

GATCACGTTT CAGGGTCCTC CAAAANGCTA GCCCGGCACT AACTAGGGA ATTCNCCCT 60
CTCCTGTCAC TTGTCATGGT CTCCTTGGT ATTAAAGGCC ACCATTGCA CAAAACAAA 119

SEQ ID NO:2530

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02904

SEQUENCE DESCRIPTION:

GATCCAGAA ATGTAGCTTG TTTCATATTT TAGTCTTCTT ATTTTGTAA AATGTGTAGA 60
ATTTGCTGTT TTTNTTTTC TTTTGACAAC TCAGGAAGAA ACTGACCTCA GAAA 114

SEQ ID NO:2531

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02905

SEQUENCE DESCRIPTION:

GATCAGCCCC CAAAGAAATG GGGGTGCATG CTGGGCCTGG CCCCCTGGCC CACCCCCACT 60
TTCCAGGGCA AAAAGGGCCC AGGGTTATAA TAAGTAAATA ACTGTNTGT ACAGCCAAA 119

SEQ ID NO:2532

SEQUENCE LENGTH:113

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02906

SEQUENCE DESCRIPTION:

GATCTTGGCT TCTCAACAGG GCAAAGATAC CAGGCCTNCT GCTGAGGTCA CTGCCACTTC 60
TCACATNCTG CTTAAGGGAG CACAAATAAA GGTATTGAT TTTTAAAGAT AAA 113

SEQ ID NO:2533

SEQUENCE LENGTH:348

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02907

SEQUENCE DESCRIPTION:

GATCAAAATG TTTGAAGAAA GGAACTTTAT TTTTGCAAGT TACGTACAGT TTTTATGCTT 60
GAGATATTTT AACATGTTAT GTATATTGGA ACTTCTACAG CTTGATGCCT CCTGCTTTTA 120
TAGCAGTTTA TGGGGAGCAC TTGAAAGAGC GTGTGTACAT GTATTTTTTT TCTAGGCAAA 180
CATTGAATGC AAACGTGTAT TTTTTTAATA TAAATATATA ACTGTCCTTT TCATCCCATG 240
TTGCCGCTAA GTGATATTTT ATATGTGTGG TTATACTCAT AATAATGGGC CTTGTAAGTC 300
TTTTCACCAT TCATGAATAA TANTANATAT GTACTGCTGG CATGNAAA 348

SEQ ID NO:2534

EP 0 679 716 A1

SEQUENCE LENGTH:111
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
5 CLONE:HUMGS02908
SEQUENCE DESCRIPTION:
GATCTGATGG TTTTAAAAAT GGGAGCTTCC CTNCACAGAC TCTNTCTCTC GTGCCGCTGC 60
CATGGCCATG TAAGNAGTGC CTTTNACCTT CCCCCGTGAT TGTNAGGCCT N 111

10 SEQ ID NO:2535
SEQUENCE LENGTH:110
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
15 CLONE:HUMGS02909
SEQUENCE DESCRIPTION:
GATCCCAACA GGACAAATCT GTGTACCTAT CTTTCTATCC TCCCTGAGCC TGTACCAACT 60
AGATTCTTCA TATGTATTG TAACAGATTA AATTGGAAAG CAAACACAAA 110

20 SEQ ID NO:2536
SEQUENCE LENGTH:110
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS02910
SEQUENCE DESCRIPTION:
GATCCCCAAC TGCTCCAGCC TCTGCCAAC TGAATCTTCA GCATGTTCTC ATCGGCGGAC 60
TNTCTTGTGT AATGTAAACT GTGCCATGTT ATTAAAAAAT GTGAATAAA 110

30 SEQ ID NO:2537
SEQUENCE LENGTH:110
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS02911
SEQUENCE DESCRIPTION:
GATCTGTTTG GAAAACATAG ATTGTTTTCC CCTCAAATAA GGGGAAAAAA AAANACCCCTT 60
TNTNCAAAATN GNTTCTTTTG TAAAAAATA TTTTAAAAGG AAATCACAAN 110

40 SEQ ID NO:2538
SEQUENCE LENGTH:109
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
45 CLONE:HUMGS02912
SEQUENCE DESCRIPTION:
GATCTTTTTA ACTCTACTGT GTCATTAAGA TGCTTTGTAC AATGCCAAAC CATAATTGGA 60
GAAACTAAGT TTAATAAATA TCAAATAGAT TTTCTGTATT AAAGTTAAA 109

50 SEQ ID NO:2539

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EP 0 679 716 A1

SEQUENCE LENGTH:109
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
5 CLONE:HUMGS02913
SEQUENCE DESCRIPTION:
GATCTCCCCC ACCCTTGGAT TAGAGTTCCT GCTCTACCTT ACCCAGAT AACACATGTT 60
GTTTCTACTT GTAAATGTAA AGTNTTTAAA ATAACTATT ACAGATAAA 109

10 SEQ ID NO:2540
SEQUENCE LENGTH:109
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
15 CLONE:HUMGS02914
SEQUENCE DESCRIPTION:
GATCTCCTNT CCCTCACTCA GTGCACGGGA CAGCTNCTCC TCCGTCACAG CTTTGGNATG 60
AAAGACAGAA GACAGCATGA TTGGCCTCAC CCACGTGCAG GNCAATNN 109

20 SEQ ID NO:2541
SEQUENCE LENGTH:107
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS02915
SEQUENCE DESCRIPTION:
GATCTGTAC TCAACTTGCT GCGTNACCTG AACACGTCAC TTTACCTCTC TGTGCCTCAG 60
TTTTCCCATG CATGAAAAAT AAAATAAAAT AAAACGGGGA TTCTAAA 107

30 SEQ ID NO:2542
SEQUENCE LENGTH:112
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS02916
SEQUENCE DESCRIPTION:
GATCAGTAAG GATTTCACCT CTGTTTGTAA CTAAAACCAT CTACTATATG TTAGACATGA 60
CATTCTTTTT CTCTCCTTCC TGAAAAATAA AGTGTGGGAA GAGACAAATA AA 112

40 SEQ ID NO:2543
SEQUENCE LENGTH:109
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
45 CLONE:HUMGS02917
SEQUENCE DESCRIPTION:
GATCATAGAA GGTGGGGTT CCAGAAAGGC ATCTGTGTGA TGGTTCCATT GATGTGGGAT 60
TTCCCTACTT GCTGTATTCT CAGTTTCTAA TAAAAAGAAC CAAATNAAA 109

50 SEQ ID NO:2544

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SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02919

SEQUENCE DESCRIPTION:

GATCCAGGAG ATANTTTTT CATTATCCT GACCAAGACT GAGCCAGCTT AGCAACTNCT 60
GGGGAGACAA ATNTNAGAAC CTTGTCCAG CCAGTNAGGA TGACAGTN 108

SEQ ID NO:2545

SEQUENCE LENGTH:343

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02920

SEQUENCE DESCRIPTION:

GATCGAGCCC AGCGTACAAC TTCCTCAAGT CGCCCAAAGA CAACGTGGAC GACCCACGG 60
GGAACCTCCG CAGCGGGCCC CTGACGGGGT GCGGGGTGTT CCTGCTGCNN NNGTGCCTC 120
TCCTGGGCAT CGTTGTCTGC GCCGTGGTGG GGGCCGTGGT GTTCCAGAAG CGGCAGGAGC 180
GGAACAAGCG CTTCTACTGA GTGGCGCTC CGGCGGTGGC CTGTCCCTGG GCCCAGGAGC 240
CAATGTGAAC TTTTTGGNT ACCGGGATTA TAAANGAACA ACAAGATGAC CTTATTCTT 300
AATGTTTCA AATAAAATGA TAAAAAGTAT TTTCAAAAAA AGN 343

SEQ ID NO:2546

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02921

SEQUENCE DESCRIPTION:

GATCCTGCCG TGCCCCATC CTGGCTGTTG GGGGTGTCCT GAGCCACCT NNNTNCGCCT 60
GTTCCCTTCA GCCAACCCGT TTCTGCAGTA AAATTAAGCC TGTCAAA 107

SEQ ID NO:2547

SEQUENCE LENGTH:105

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02922

SEQUENCE DESCRIPTION:

GATCACTGAA CCAGACACAG CATTGCTGAC ACATGAGACT AACACGTGCA ATTATTTAAA 60
AAGATTTCAA TAAAACTNCC TGGCTGGCTC CGGGCCGCCC CTAAA 105

SEQ ID NO:2548

SEQUENCE LENGTH:103

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02923

SEQUENCE DESCRIPTION:

EP 0 679 716 A1

GATCCTGTGG GTTTAGTATC ATTATCTTCA GCTCTTTGAT ACNCTGTGTT AGAGTAATAG 60
CTAAAGGAAG TTCATGTCAA TAAATTCATA CTTATATCAC AAA 103

5 SEQ ID NO:2549
SEQUENCE LENGTH:104
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02924
10 SEQUENCE DESCRIPTION:
GATCCAGAGC TGGGGTGGAA GGAGAGCCAT TCTGAACGNC ACGNCTGGCC CGGTCAAGTGC 60
TGCATGCACT GCATATNAAA TAAATCTGC TACACGCCAG GAAA 104

15 SEQ ID NO:2550
SEQUENCE LENGTH:103
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02925
20 SEQUENCE DESCRIPTION:
GATCCCNAGG CTCTGTTCCA TGAGCCTGTT GCANGTTTGG GTACTTTAGA AATGTAAGT 60
TTTGCTCTTA TAATTTTATT TTATTAATTA AAATTACTGC AAA 103

25 SEQ ID NO:2551
SEQUENCE LENGTH:102
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02926
30 SEQUENCE DESCRIPTION:
GATCGATGAG GCAGGTCAGT TGTAAGTGAG TCACATTGTA GCATTAAATT CTAGTATTTT 60
TGTAGTTTGA AACAGTAACT TAATAAAGA GCAAAAGCTA AA 102

35 SEQ ID NO:2552
SEQUENCE LENGTH:102
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02927
40 SEQUENCE DESCRIPTION:
GATCATATCT AGTNTTNAAG TCTCTAGGAA CAATAGAGAT TATATCATAA CTCTGAAGAT 60
GGACTCTAAA CTTTGGTTTA CCTCCATGGA AAATAANCGN NN 102

45 SEQ ID NO:2553
SEQUENCE LENGTH:101
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02928
50 SEQUENCE DESCRIPTION:

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EP 0 679 716 A1

GATCGAATGA GGGTTAAATG AATTATTTC A TGTAAGCTC TTAGCCCTGT GCCTGGTACA 60
TAGTAAATNC TAAATAAATA GTGGTATTCT TACTGTTTAA A 101

SEQ ID NO:2554
SEQUENCE LENGTH:390
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02929

SEQUENCE DESCRIPTION:
GATCCAGCTT ATTCTTTTAT TTTCAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60
TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT NTGATGTTGG CAGGGGAGGG 120
GAGACCTGGG TGGTGNCCTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTGAGT 180
GCTTNNNTNN TAGGTTTTAT TTNNNNATGA ATGTCCAAAT CTGTGTTTCC CCCTGCCANA 240
ACAGACTGTG TGGCCAGTTG AAAGTGTCTT GGTGTGTTGG TCATCTCTCC CTCATTTTCT 300
TGGAGGCAGG GCCTGAGANC CCGNCANAA TCTCCTATGG TTNTGAATCC ACGGCTTCTT 360
TTTGGACATT AAAGGTTGAT TTGATGCAAA 390

SEQ ID NO:2555
SEQUENCE LENGTH:227
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02930

SEQUENCE DESCRIPTION:
GATCTATCCT CAGCACTGCT GAGTGTGCAG TCACACTTTC CTACCAACCC NCTTCTTACC 60
ATCTCTAGCT GCCATTTGTG GGGGGAACAA AACAAGGGAA TCCTGATTGT GTACAGTATA 120
AATTGTATTA TATTTTTTGT ACTTATGTTT TATGTAAATA GTTTGTCTCA TTCAATTGTA 180
TGTGAGCATT GAAATAAATC CTACCATTTA GGGGAAAAAA ATNNAAA 227

SEQ ID NO:2556
SEQUENCE LENGTH:106
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02931

SEQUENCE DESCRIPTION:
GATCTTCAAA AATAATGCCT CTGTCTAGCA TGCCAACAAG AATGCATTGA TATTGTGAAC 60
ATTTGTGATA TATGTATTAA TAAATAGAGC AATTACAAGC AGCAAA 106

SEQ ID NO:2557
SEQUENCE LENGTH:99
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02932

SEQUENCE DESCRIPTION:
GATCTTTCTT ACACAGTGAT TCATTCCTCT ATTTGTACAG TGGCTTTATG AAATATTGTG 60
AATTGATACT GTAATCAATA AAGTGCTTTT AACCAGAAA 99

SEQ ID NO:2558
 SEQUENCE LENGTH:98
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02933
 SEQUENCE DESCRIPTION:
 GATCCTGGTT CCCTGTTTGG AAAATTCACC ACCTCTAGCT CCTCACTGTT CTTTGTAATT 60
 AACACGCTGT TGGTAATCTT ATTAATTATT TAACCAAA 98

SEQ ID NO:2559
 SEQUENCE LENGTH:97
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02934
 SEQUENCE DESCRIPTION:
 GATCTGGGGA CCCTGACTGC ACAGAACAGT GGGCGCNTTA CAGACCACCG ACCGCCCAG 60
 GGTGAATTAC ATCTTAATAA AGCTACTGTG AGAGAAA 97

SEQ ID NO:2560
 SEQUENCE LENGTH:93
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02935
 SEQUENCE DESCRIPTION:
 GATCGCCGCC AACATCCAGG CTGACTACTT GTATCGGTGA CGCCCCACCG GCCCGCAGCC 60
 CCTGCTGCCC AATAAAACCA CTCCGACCCC AAA 93

SEQ ID NO:2561
 SEQUENCE LENGTH:92
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02936
 SEQUENCE DESCRIPTION:
 GATCATCCCT TGACAGTAGT TTGCTTTCAT CTCACCTTTC ATTTGTCCCA AANNCACCTA 60
 TATTTAATAA AGTCCCCCCC NGTNGTCTCA AA 92

SEQ ID NO:2562
 SEQUENCE LENGTH:91
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02937
 SEQUENCE DESCRIPTION:
 GATCCACAAA ATGAGACAAT GCATGTGAAA ATCCATGCTC ATGTTCTAAA CATGGAAACT 60
 AGGAGCCTAA TAAACTTCCT AATTCAGTAA A 91

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SEQ ID NO:2563
SEQUENCE LENGTH:96
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02938
SEQUENCE DESCRIPTION:
GATCGTATTT TTATATCATA TTCACATATT TTTTTTTTA ATTGGTGTTA GATGACATGA 60
TTAATAAAAA AGGCAAGATA TTTTCAGAAT TTGAAA 96

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SEQ ID NO:2564
SEQUENCE LENGTH:88
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02940
SEQUENCE DESCRIPTION:
GATCGCGCCA TCGCACTCTC AGCCTGGGCA ACAAGAGTGN AACTCCATCT CAAAAAATA 60
AAAATAAAAT AAGTAAGNAA TACCTAAA 88

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SEQ ID NO:2565
SEQUENCE LENGTH:87
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02942
SEQUENCE DESCRIPTION:
GATCTAATAT ATATCATCAG AAAATATATA TTGTATGTTT ACTCTTATTT TCAGAAAGAG 60
AAAATGAATA AAAATGATGA CATCAAA 87

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SEQ ID NO:2566
SEQUENCE LENGTH:87
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02944
SEQUENCE DESCRIPTION:
GATCGCTTGA NCCCAGGAGT TTTAAACCAG CCCGAGGAAC ATGGCGAAAC CCCATCTTTA 60
CAAAAAATAC AGAAATNAGC CAAGAAA 87

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SEQ ID NO:2567
SEQUENCE LENGTH:86
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02946
SEQUENCE DESCRIPTION:
GATCTAAGGG GTTGCCATGG TGTTGAACAA TGCAACTTTT TATTTAAAAA AGCTCTGCAC 60
TGCCATGTAT GAAAGTNTCT TTATGN 86

5 SEQ ID NO:2568
 SEQUENCE LENGTH:86
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02947
 SEQUENCE DESCRIPTION:
 GATCCNGGAT TGCTGGGAAT GGAAGCCAGG TGGGGTCATG GCACAAGTTC TGTAATCTTC 60
 10 AAAATAAAAC TTTTITTTTG TACAAA 86

15 SEQ ID NO:2569
 SEQUENCE LENGTH:85
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02948
 SEQUENCE DESCRIPTION:
 GATCCTGGCC ACTATGCCAG TTCTGACCTC GCATCCCCCT ACCCCGAGCC CATGCAGTCT 60
 20 GGGACATGC CGCCTTCTCT CCAAA 85

25 SEQ ID NO:2570
 SEQUENCE LENGTH:85
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02949
 SEQUENCE DESCRIPTION:
 GATCAAAATG TACTAGTGTC TGCAGGGTTT GTCAGTACTC GTCAAAGCCA AGTCCAATTA 60
 30 AAAAAAAAAG TCTTTGCCCT CCAAA 85

35 SEQ ID NO:2571
 SEQUENCE LENGTH:85
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02950
 SEQUENCE DESCRIPTION:
 GATCTTTTCT TTAAAATTC TCTGCACACA CAGGACTTCT CATTTTCCAA TAAATGGGTG 60
 40 TACTCTGCCC CAATTCTAG GAAAA 85

45 SEQ ID NO:2572
 SEQUENCE LENGTH:85
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02951
 SEQUENCE DESCRIPTION:
 GATCTTTTAC CCCTTCACT CTGGGCTTTC TTATGTTGCT TTCATGAATG GAATNGAAAA 60
 50 AAGATGACTC AGTTAAGGCA CCAAA 85

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5 SEQ ID NO:2573
 SEQUENCE LENGTH:84
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02953
 SEQUENCE DESCRIPTION:
 GATCTGCCTG ATGGGAGGGC TCCTGTCGAG GGAGACAGAC ATATCCCCAC TGAAAAATTA 60
 ATAAAAATTGG TTTTACATAT CAAA 84

10 SEQ ID NO:2574
 SEQUENCE LENGTH:84
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02955
 SEQUENCE DESCRIPTION:
 GATCTGACTG GAAAACAATC CTGTATCCCC TCCCAAAGAA TCATGGGCTT TTTTTTNAN 60
 TTAAAAAGCA GACAAATAGA CAAA 84

20 SEQ ID NO:2575
 SEQUENCE LENGTH:82
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02957
 SEQUENCE DESCRIPTION:
 GATCAAAAAGA AACTTAAAA GTGGAATGGG ATATGGCTTT TGGTACCTGA AAATAAATNC 60
 TTTAATAATT GTAAGCCAGA AA 82

30 SEQ ID NO:2576
 SEQUENCE LENGTH:82
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02958
 SEQUENCE DESCRIPTION:
 GATCAAAAAT ATAGTTATAA TTTNTAAAT TTAAAAATG TGATTGCNCT AATAAAGAAT 60
 AAAANCTATG CTTTAAACA AA 82

40 SEQ ID NO:2577
 SEQUENCE LENGTH:85
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS02959
 SEQUENCE DESCRIPTION:
 GATCACTGCA GNTTCTAGGA CCCGGTTTCT TTTACTGATT TAAAAACAAA ACAAAAAAAA 60
 ATAAAAAAGT TGTGCCTGNN ACAA 85

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SEQ ID NO:2578
SEQUENCE LENGTH:81
SEQUENCE TYPE:nucleic acid
5 TOPOLOGY:linear
CLONE:HUMGS02960
SEQUENCE DESCRIPTION:
GATCTCCCAT AATTGAAAT TGAAATCGTA TTGTGTGGCT CTGTATATTC TGTAAAAA 60
10 TNAAAGGACA GAAACCTTAA A 81

SEQ ID NO:2579
SEQUENCE LENGTH:79
SEQUENCE TYPE:nucleic acid
15 TOPOLOGY:linear
CLONE:HUMGS02962
SEQUENCE DESCRIPTION:
GATCCACCAT CTTATCTTGG TGCCATCCCT GACTTGGCTT CTGTCATAA ATGCCTATTA 60
20 AATGTTTCTT TCTGAGAAA 79

SEQ ID NO:2580
SEQUENCE LENGTH:79
SEQUENCE TYPE:nucleic acid
25 TOPOLOGY:linear
CLONE:HUMGS02963
SEQUENCE DESCRIPTION:
GATCCAATTG CTGGTTACAT TTTGGGAAGC TCTCATTTTA GTGCTATGTA GTTTCATTGA 60
30 ATAAACTGTT TAATATAAA 79

SEQ ID NO:2581
SEQUENCE LENGTH:75
SEQUENCE TYPE:nucleic acid
35 TOPOLOGY:linear
CLONE:HUMGS02964
SEQUENCE DESCRIPTION:
GATCTAAGAG GAAAGTGGTT ATCGGTTGCN NTTTATTTAT AAAGGATGCA AACATAAAAT 60
40 TAGATTTTGG GCAAA 75

SEQ ID NO:2582
SEQUENCE LENGTH:73
SEQUENCE TYPE:nucleic acid
45 TOPOLOGY:linear
CLONE:HUMGS02965
SEQUENCE DESCRIPTION:
GATCAGCCTT TTTGTTTCAA TGAGGTGTCC AACTGGCCCT ATTTAGATGA TAAAGAGACA 60
50 GTGATATTGG AAA 73

SEQ ID NO:2583

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02966

SEQUENCE DESCRIPTION:

GATCCCAGAG TGGCCTGCCT ATCACAACCA CATCCCTTCC CCCCACAAGG CAATAAATCT 60

CATTCTTTA AA 72

SEQ ID NO:2584

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02967

SEQUENCE DESCRIPTION:

GATCAACGAC AAAATGCACT TCTCCCTCAA GNAGTGAGGC TTGGTCCAAT ACATGGCTCT 60

GCCCCCAGA AA 72

SEQ ID NO:2585

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02968

SEQUENCE DESCRIPTION:

GATCAATCTT GTATTTTCTG ACCACATAAA GGCTTCTTCT CTTTGAATA AAGTAGAAAA 60

GCTCTCCTCA AA 72

SEQ ID NO:2586

SEQUENCE LENGTH:166

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02969

SEQUENCE DESCRIPTION:

GATCTTGTTT CTGAAGATGG TTAAAGTTAT AGCTTCTTAA ACGAAAGAAT AAAATACTGC 60

AAAAATGTTT TATATTTGGC CTTCCACCC ATTTTAAATT GTGAGAGATT TGTACCAAT 120

CATCACTGGT TCCTCCTTAA AAATTA AAAA GTAACCTCTG TGTAAA 166

SEQ ID NO:2587

SEQUENCE LENGTH:71

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02970

SEQUENCE DESCRIPTION:

GATCATAGGA GAGACCCATT NGCTAGCTAC TTCATTCGTT CTGACCTAAT AATAAAAGTT 60

AGAACCATAA A

71

SEQ ID NO:2588

SEQUENCE LENGTH:72

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02971

SEQUENCE DESCRIPTION:

GATCTGACGT TCCTTGTGAC TTAAGGGTCC GGCTTGGGAA TTAAAGTTTG TTTCTGGCCT 60

TTAGCCTACA AA 72

SEQ ID NO:2589

SEQUENCE LENGTH:70

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02972

SEQUENCE DESCRIPTION:

GATCTGGCCA GTCAAGGGTC CACAGGGTGC CAGCCTCTCA CCCTCAGAAT AAAGACATCA 60

GCCATTCAAA 70

SEQ ID NO:2590

SEQUENCE LENGTH:69

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02973

SEQUENCE DESCRIPTION:

GATCATCTAA ACTGAGTCCA GCTGCCTAAT TCTGAATATA TATATATATA TATATCTTTT 60

CACCATAAA 69

SEQ ID NO:2591

SEQUENCE LENGTH:68

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02974

SEQUENCE DESCRIPTION:

GATCCTTATT ACAGGAAAAG CATGAGTGGT GGCTAACCTG ACCAATAAAG TTATTTTATG 60

ATTGCAAA 68

SEQ ID NO:2592

SEQUENCE LENGTH:68

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02975

SEQUENCE DESCRIPTION:

GATCTTAGAT TTTATGTAGT ATTAAGTGAA AAAATACGAA AATAATAAAC ATTGAAGAAA 60

AAAATAAA

68

SEQ ID NO:2593

SEQUENCE LENGTH:75

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02976

SEQUENCE DESCRIPTION:

GATCACATTT TCTGTTGGTT AACATTNTTC CTAGCTTATA TGATGGAATT AAATATATTC 60

TGTGTAAAAA GGAAA 75

SEQ ID NO:2594

SEQUENCE LENGTH:67

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02978

SEQUENCE DESCRIPTION:

GATCCACCTA ACAAGAAACC TAAAGTGTAG AGATTGCCAT TTTNATTGT AATTTTTTTT 60

TTTTTTN 67

SEQ ID NO:2595

SEQUENCE LENGTH:66

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02980

SEQUENCE DESCRIPTION:

GATCACACAC CGGCTGTATT TAATATGTAA CATTTTCACA NATATTAAAG ANACAGAAGT 60

ATTAAA 66

SEQ ID NO:2596

SEQUENCE LENGTH:65

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02981

SEQUENCE DESCRIPTION:

GATCAGCATG GGCCACGTAG NCGNGACTCC ATCTCTACAC ATAAATAAAA AATTAGCTGG 60

GCAAA 65

SEQ ID NO:2597

SEQUENCE LENGTH:63

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02982

SEQUENCE DESCRIPTION:

GATCCAATTT ATGTTTTTTC TTTNTTTATA TTTTGGGGAA AATTAAAAATT TTTTAAGGT 60

AAA

63

SEQ ID NO:2598

SEQUENCE LENGTH:61

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02983

SEQUENCE DESCRIPTION:

GATCACGCAA TAATGACTAT GTAATCTCAA AAAACAAATA AAATATTCTT AACATGGCAA 60

A 61

SEQ ID NO:2599

SEQUENCE LENGTH:60

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02984

SEQUENCE DESCRIPTION:

GATCCAAGCA GTGTGTCCT ATATACTGA TAAAAGCACT TGGTCTTNGA TTATCAGAAA 60

SEQ ID NO:2600

SEQUENCE LENGTH:58

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02985

SEQUENCE DESCRIPTION:

GATCATTTTG CACATAGCTT TATCAACTTT TAAACATTAA TAACTGATT TTTTAAA 58

SEQ ID NO:2601

SEQUENCE LENGTH:58

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02986

SEQUENCE DESCRIPTION:

GATCTTTGCA GTTTTGNGAC AATTACAAGT AAAGCTGCTA TAAACATTG TATGCAAA 58

SEQ ID NO:2602

SEQUENCE LENGTH:74

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02987

SEQUENCE DESCRIPTION:

GATCGACACG CAGCTAGCCT CCTGCATTGT ATGGTTATAA ATAGCACCT AGTGAGTNC 60

GTCGTCCAGT CAAA 74

SEQ ID NO:2603

SEQUENCE LENGTH:58
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02988
SEQUENCE DESCRIPTION:
GATCCTGGGG CAACCCATCT GGTCTCTTGA ATAAAGGTCA AAGCTGGATT CTCGCAAA 58

SEQ ID NO:2604
SEQUENCE LENGTH:56
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02989
SEQUENCE DESCRIPTION:
GATCACGTTT CGTGTTCATA CTCAACGTTA ATAAAAGGAG AGAGTTTGTA GTGAAA 56

SEQ ID NO:2605
SEQUENCE LENGTH:55
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02990
SEQUENCE DESCRIPTION:
GATCGCTGTG CCTGGCATAT AGTAGGTGTT CAATAAATGC CCTGTGACTC TCAAA 55

SEQ ID NO:2606
SEQUENCE LENGTH:59
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02991
SEQUENCE DESCRIPTION:
GATCTATCCT CAACAACAAC AGAAAAAAGG AATAAAATAT CCTTTGTTTC CTAGTGAAA 59

SEQ ID NO:2607
SEQUENCE LENGTH:54
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02992
SEQUENCE DESCRIPTION:
GATCCATTTT AAAATTTGTA ATTCAATAAA GTTTTTTTTG TTGTAAACA TAAA 54

SEQ ID NO:2608
SEQUENCE LENGTH:53
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS02993
SEQUENCE DESCRIPTION:

GATCTTGAT TCAGTCAGGT TAAAAACAAG GACAATAAAA GAATGAACAC AAA

53

SEQ ID NO:2609

SEQUENCE LENGTH:52

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02994

SEQUENCE DESCRIPTION:

GATCTGGGGT GGGAGTAACA GGGCAGAAAT GATTAAATG TTTGAGCACA AA

52

SEQ ID NO:2610

SEQUENCE LENGTH:52

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02995

SEQUENCE DESCRIPTION:

GATCCTTTTT TTTTCCACA AAATTTTAC AAATAAAAAA TGTTCCTTA AA

52

SEQ ID NO:2611

SEQUENCE LENGTH:52

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02996

SEQUENCE DESCRIPTION:

GATCTCAAAG TGCCTTCTGA AGCATCAGAG ATTAAATATT GTTCAAATA AA

52

SEQ ID NO:2612

SEQUENCE LENGTH:53

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02997

SEQUENCE DESCRIPTION:

GATCTGAATG GGGCTTNCCT GATGTTGTA TCTAAGGCTT AGGCCTATAG ATN

53

SEQ ID NO:2613

SEQUENCE LENGTH:50

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS02999

SEQUENCE DESCRIPTION:

GATCTGAAT GTATTTCTT AAGTTTATTA ATAGACATT TCACAATAAA

50

SEQ ID NO:2614

SEQUENCE LENGTH:50

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03002

SEQUENCE DESCRIPTION:

GATCTATCTG GAAAATGNAG GACTCCGAAT AAAAAGCTAT TACTAATAAA 50

SEQ ID NO:2615

SEQUENCE LENGTH:51

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03005

SEQUENCE DESCRIPTION:

GATCAGGGGA AATNTTTAAG CTAAATAAAT CTGGGGGGTT TTTTATTCAA A 51

SEQ ID NO:2616

SEQUENCE LENGTH:165

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03028

SEQUENCE DESCRIPTION:

GATCGAATGG TATATATTAG AAATTACATC TGTTGTAATT AAAATTGTGT GAGCAATTAA 60

ACATGGTTGA NTTTTTCAAG CAAAAATCAG TTCATCTTTT GATGTAATTT TCTAGGCTAA 120

ATGGCAATCT CTGAAAGATG AATAAAGCTA TATTTATTTA GCAAA 165

SEQ ID NO:2617

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03030

SEQUENCE DESCRIPTION:

GATCACATTT TAAGCATCTN TCTCTCCTAC TCCATTAGA AAAATAAGTA ACAGGTGAAA 60

TGTGGTCTCA GTGTTAACGG GATAATTCTG CTACCGGCTC CTCCCTGATG ATTCTNAAAT 120

ACACTACTGA ACGAGCTCTG GCTGGTCCTT TCTATCCTGG ATGTGGTTCT TCTGTGTAGC 180

AATTCCTTGA NGTCCAGGTT GGAAAGATGT ACTCTTCTCA ACCAAGGAAA ACCTTAAATC 240

CCGTCGTGGC CAAA 254

SEQ ID NO:2618

SEQUENCE LENGTH:271

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03031

SEQUENCE DESCRIPTION:

GATCAACCCC AGACTGGGCC AGAATGTTAG TGAAGGTTTT ATTGTGCCCC GTTGGAGGAT 60

AACGTTCTTT GGGTACTTTT TGTGGGTTGC AAATNAACTC AATTGCCACA AGTTTTAAAC 120

TGGTGTAAT CAAGCTTGAC TTAATGTGAT TGTNACTGTT ATATCCAGNC TATACTGCTA 180

GCAGCTGCTC ATACTGCAGT CAATTACTGG AAGCGGATAT ATTCCTATG CAAAAACTGT 240

TTAAACAATA AAATGAGCTA TGCTACAGAA A

271

SEQ ID NO:2619

SEQUENCE LENGTH:489

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03053

SEQUENCE DESCRIPTION:

GATCCACAGC TTAAAGATGG GAATTCAGGT ATGAAAGAAA ACAGGCAAGG AGGCACTGAG 60
 GGAGAAAGAC ACAGACTTTA TCGCTCTGTG GCTCATTGTT ACTGGAATAT NCTAAACTC 120
 TTGTNCACAT GCTATTATGA CTTATAAAGC AGCAACAGCT GAGGCGCACC AGGACACAGC 180
 TTCCATTCT TTAACGTCTG TNCCTTAAC ATCGCTGAAA TNATTTACTG TTGAAGAGAT 240
 GCCTTGCAGT GTGGCCAGCT GTGAGGAGAA AGCAGCTGGC AGTGTTAGGA CATTAGTCCA 300
 CTTTCAGCGC AGGGTCTCTG GCCGGGTCTG ACTCAGAAAC CTTGGTACTC GNCCCTTGGN 360
 CACAGTGCCC AGACCATGT AACCNACTNG NTCCTGCATT AACCNAGAAA TACCTCGGTT 420
 CTATNTGTGC ACTTAGCTGG GGACTTACCC ACTGTAATCA CCTNAATNAA NGGGTTNTAA 480
 ACATGGAAA 489

SEQ ID NO:2620

SEQUENCE LENGTH:471

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03055

SEQUENCE DESCRIPTION:

GATCCAAAAC GCTTCGAGGC ACCCCAAATN ACCTGCCCAT TCGTNAGGAN GACCCACCCA 60
 CCCAGTGTTA TATTCTGCCT CGCCGGAGTG GGTGTNCCCG GGGGCACTTG CCGACCAGCC 120
 CTTGCGTCC CCAGGTTTGC AGCTCTCCCC TGGGCCACTA ACCATCCTGG CCGGGGCTGC 180
 CTGNTGACC TCCGTGCCTA GTCGTGGCTC TCCATCTGT CTCTCCCCG TGTCCCAAT 240
 GTNTTCAGTG GGGGGCCCC TCTTGGGTCC CCTCCTCTGC CATCACCTGA AGACCNCAC 300
 GGCAANAAC GAATGTAANC TGTGNTGNN GNCTCGGTCC AACTTGGGN CCGTGTITNA 360
 CTNAACNAG CTCCTTAAAC GGTAATATTT CNGGGAAAAT CCCATGNTTG GGTTTGGTC 420
 TTAAACCTTG GTAACGGTTG AAATCCAATT AAAGNTTAA AAGTCATGAA A 471

SEQ ID NO:2621

SEQUENCE LENGTH:435

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03056

SEQUENCE DESCRIPTION:

GATCACCATT AAATCTGAAA GTACCTTTAA AAATACTGAG ATTNCCITCA TACTGGGCCA 60
 GGNATTNAC GAAGNACCTG CAGATGACAG GAAAGTCAAG AGCACCATAA CCTTAGATGG 120
 GGGTGTCTG GTACATGTNC AGAAATGGGA TGGAAATCA ACCACCATAA AGAGAAAACG 180
 AGAGGNTGAT AAAGTGGTGG TGGAAATGCNT CATGAAAGGC GTCACCTCCA CGAGAGTTA 240
 TGAGAGAGCA TAAGCCAAGG GACGTTGACC TGGACTGAAG TTCGATTGA ACTCTACAAC 300
 ATNTGTGGG NTATATTGTT CAAAAAGNTA TTGTNGTTTT CCATGGATTT AGCAAGCAAC 360

TAATTTTNTC CCAAGCTNGN TTTTTTCAA TANTGGTNAC GTTGGNTAAA TAAANNTTTT 420
TTTAGGNTTT TNAAA 435

5 SEQ ID NO:2622
SEQUENCE LENGTH:411
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS03058

SEQUENCE DESCRIPTION:

GATCTCATCA GGGGAAGGCT CTGTGATGCT GCAGGTTGAT GTAGACACAG TAAAAGGAGG 60
GCTGAAGTTG AACCCCAACT NNCTGGTGGA CTTCGGGAAG GAGCCCCTTG GCCCAGCCCT 120
TGCCCATGAG CTCCGCTACC CTGGGGGCGA TTGTAGCTCT GACATCTGGA TTTGAACTCC 180
15 ACCCTCATCA CCCACACTCC CTATTTTGGG CCCTCACTTC CTTGGGGACC TGGCTTCATT 240
CTGCTCTCTC TTGGCACCCG ACCCTTGGCA GCATGTACCA CACAGCCAAG CTGAGACTGT 300
GGCAATGTGT TGAGTCATAT ACATTTACTG ACCACTGTTG CTTGTTGCTC ACTGTGCTGC 360
TTTCCATGA GTCNTTGAG GCACCAAGAA ATAACTNGT AACCTGTAA A 411

20 SEQ ID NO:2623
SEQUENCE LENGTH:410
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS03059

SEQUENCE DESCRIPTION:

GATCCAGGCG GGATGGAGTG TGGAGTGTGG GCACAGTGGC TTGTACAGGC CTGGNCTGGG 60
CAGACTTGCC CCGGAGTCTC AGGCCACTGC GGAAGGAGGA CGCGTGGCCA GCAGGTGCCA 120
CCAGGAGAGG AGAGGAGGGC CAGGCTGAGC TGCATCTNTG GACTCCAAGG AGAGCTTGGA 180
30 GAGGTGACTG AAACCCTGCC CCACCCCGAG CCTGTNTCCA TCTGTGGGTC CTTGGGCAAA 240
TTGCCTCATC TCTCTNAGCC TCGAATGCGT AGTTTCAGGA CTAACAGGG TACTGTGTAC 300
CAACTGCCTC TGCCAACGGC CCTGCACCTG GCANGCCTGG GGTACCTGGG CTTGGGGNA 360
AGGAAGTAGG CCTTNGGNAG GAGGCTGGAT TGCTTACAA TTTNTTTTNN 410

35 SEQ ID NO:2624
SEQUENCE LENGTH:408
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
40 CLONE:HUMGS03060

SEQUENCE DESCRIPTION:

GATCTGCGGC CCATCTACAT CTCTGTGCAG CCGCCTTCAC TGCACGTGCN GGAGCAGCGG 60
CTGCGGCAGG CATACTGA AACCGAGGAG AGCCTGGTGA AGCGGCTNGC TGNTGCCAGG 120
45 CCGACATGGA GAGCAGCAAG GAGCCCGGCC TGTTTGATGT GGTTCATCATT AACGACAGCC 180
TGGACCAGGC CTACGCAGAG CTGAAGGAGG CGCTCTCTGA GGAAATCAAG AAAGCTCAAA 240
GGACCGGCGC CTGAGGCTTG CTGTCTGTTT TCGGCACCCC GGGCCCATAC AGGACCAGGG 300
CAGCAGCATT GAGCCACCCC CTTGGGAAGG CGATACGGCA GCTCTGTGCC CTTGGCCAGC 360
ATGTTGGAGT TGGAGGAGAT NCTTGCCCTT GTTGGTTTGG ACCATCCN 408

55

SEQ ID NO:2625

SEQUENCE LENGTH:398

SEQUENCE TYPE:nucleic acid

5

TOPOLOGY:linear

CLONE:HUMGS03061

SEQUENCE DESCRIPTION:

GATCTCAACG AGACAAACGA TGGGTGGACC CGAACTCCCC GGTGCTCTTN GAGGACCCAG 60
 TCCTTTNTGC CTTGGCAAAA AAGCACAAAGC GAACCCAGC CCTGATTGCC CTGCGCTACC 120
 10 AGCTGCAGCG TGGGGTTGTG GTCCTGGCCA AGAGCTACAA TNAGCAGCGC ATCAGACAGA 180
 ACGTGCAGGT TTTTNANTTC CAGTTGACTG CAGAGGACAT GAAAGCCATA GATGGCCTAG 240
 ACAGAAATCT CCACTATTTT AACAGTGATA GTTTTGCTAG CCACCCTAAT TATCCATATT 300
 CAGATGANTA TTANCATGGA GGGCTTTGCC TGATGGTNTA CCAGAAGCCC TGTGTGTGGN 360
 15 TGGGTGACGC AGAGGGACGT CTCNTGCGG GTGACTGN 398

SEQ ID NO:2626

SEQUENCE LENGTH:394

SEQUENCE TYPE:nucleic acid

20

TOPOLOGY:linear

CLONE:HUMGS03062

SEQUENCE DESCRIPTION:

GATCACAGCT GGGGGAAAAA AAGCTTTTTA ATTCTGTACC TTCCTAGTAG ATAAGTGAAG 60
 AGCAGGGAAA GAGACCTTTA AATATTTTNC TATAAAAAA TTTGTGATAA GTTCTATCA 120
 25 AAATGGGGAG ATTGCAGAAA AGGCTTCCCT TGGNTCCAA GGAGGTGTAG CAGGTGTGAG 180
 CAATATTAGT GCCATGTGCC TTTCACACAG GGTTCGATT TATCAGTCTG TTTCCGATG 240
 NNNNGGTACA TGAAGAGTA CACCATGTGA AGAGAAGAGA GAATGATTGA AAATGTTTTA 300
 GTATAGACCT CTTCTTGCA GGGTTGCTA TTTCTAGAT TTTACTTTTT AGGGACCAAA 360
 30 NTAAANTCCT TTGTTAAACN TGGGTCAGNG NAAA 394

SEQ ID NO:2627

SEQUENCE LENGTH:392

SEQUENCE TYPE:nucleic acid

35

TOPOLOGY:linear

CLONE:HUMGS03063

SEQUENCE DESCRIPTION:

GATCGCACCA TTAACTCCA GCCTGGGTGA CAGAGAGAGA CCCTGTGCCN NTCAAAAAA 60
 TGTTTTTTTT AAACAAGAAT CTCTCAGGCA TACTGAAATN TTGAAGAGGA AATNATATTA 120
 40 ATATCTGGGA CTTGTTTCCA AATTGGAAT TGGGGCAGGG TGTAAATNGT TGGCAATATC 180
 AAAGAAACGA GGAGTTGGAA TNATAATTGT AGAAGCTGCA TGATAGATAC ACATTCTTTA 240
 TACTTCTGTA TATGTNGAAA TTTTNATCA AATTATAATN GTGTATAATG ACTAATTATG 300
 45 CTTNCATTGT CTATCCTGTG TGGTTATGTN ACTTGCTGAA ATNNATACAT AANGGGTCTT 360
 CAACCTTNAN NTGGTCTTAT CCANGGCATA NN 392

SEQ ID NO:2628

SEQUENCE LENGTH:385

SEQUENCE TYPE:nucleic acid

50

55

EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS03064

SEQUENCE DESCRIPTION:

5 GATCTGTAAT NATCTCTATT GGCCTGGGGT GCCTGTGCTA TAAATAAGTT TCTTCACATG 60
 AAAAACACAG CCAGCCCAAG ATNACTTATC TGGGTTTAGG ATTCAATAGT ATTCACCTAAC 120
 TGCTTATNAC ATGAGCAATT TCATCAAATC TCCAAACTCT TAAAGNATGC TTTCGGAAAA 180
 CACGCTGTAT ACCTAGATGA TGAATAAATG CAAAACTCTT GGGCTTTGGT TTTTCTCTAG 240
 TAAGGATTTT AAATAACTGC CGACTTCAAA AGTGTTCTTA AAACGAAAGA TAATGTTAAG 300
 10 AAAAAATTGA AAGCTTTGGA AAACCAAATT TGTAATATCA TTGTATTTT NATTAAAAGT 360
 TTTGTAATAA ATTTCTAAAT TTAAA 385

SEQ ID NO:2629

15 SEQUENCE LENGTH:385

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03065

SEQUENCE DESCRIPTION:

20 GATCGGGGCC CTGGGGCTGT NAGACCCCGA CCNTCTCGAG GAACCCTGCC TGAACGCCT 60
 CCATTACCAC TGCAGAGTGA GATGAGGGGA CTCACAGTTG CCAAGAGGGG TCTTTGCCGT 120
 GGGNNGGNTC GCCAGCCACT CACCACTGTC ACTGAGAGGG GAGGTTNGCA CACCCCTCCC 180
 CTGGGCCGCT GAGGCCCGCG CACCTGTGCC TTAATCTTCC CTCCCCTGTG CTGCCCGAGC 240
 25 ACCTNCCCGG CCCCTTTACT CCTGGGAATC TTGCAGCTGC CCTTCCCTNC CCGTTTTTAA 300
 TGGCCTGCTG AAATATGTGT GTGAAGAATT ATTTATTTT GNCAAAGCAC ATGTAATAAA 360
 TGCTGCAGNC CNGCCTNTGC CCAAA 385

SEQ ID NO:2630

30 SEQUENCE LENGTH:385

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03066

SEQUENCE DESCRIPTION:

35 GATCCCGGGN AGTNACAGGT GCCGACGTGA TGTGCTTCT NTGGTGCCCA GCTCCCTTCC 60
 TGGTCTNANA CTAGCTCTGG GGGTGGCGGG GGCCCCACA CGCTGCTCCC GCTCCACCCT 120
 GCCCGTNCCTG CTGCTCTGTG CCTGCTGTCA GAGCCCTGGT GGGGGAGGAT GTGGCCACCC 180
 TGAGACCCGG AGGAGACGGG CGTCTGCCTG GNTTTCGGA GAGCNGCTTA TGGGTGTGGT 240
 40 CCGTCCAGAC ACCTTGTTTC AAGGGGGATG GGCCTNANGG GCAAGCAGAG CATCCCCACC 300
 GNTGAGCAAG AACTTTTTCT TGTTTTTAAA CCATCACGTC CTCATTTCAC AATTGGAATA 360
 AAGTGAGTTT TTTGGAACC TGAAA 385

45 SEQ ID NO:2631

SEQUENCE LENGTH:381

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03067

50 SEQUENCE DESCRIPTION:

55

GATCGCAAGG AACTGGGCCG CCTACTACCC CGACCTGCCC ACCCCAGAAC AGCAGCAAGA 60
 CATGGCCAG TTCATACATT TATTTCTAA GTTTTACCCC TGTAAGGAGT GTGCTGAAGA 120
 CCTAAGAAAA AGGTTGTGCA GGAACCAACC AGACACCCGC ACCCGGGCAT GCTTCACACA 180
 GTGGCTGTGC CCCNTGCACA ATGAAGTGAA CCGCAAGCTG GGCAAGCCTG ACTTCGACTG 240
 CTCAAAAGTG GATGAGCGCT GCGCGACGG CTGGAAGGAT GGCTCCTGTG ACTAGAGGGT 300
 GGTGAGCCAG AGCTCATGGG ACAGCTAGCC AGGCATGGTT GGATAGGGGC AGGGCACTCA 360
 TTAAAGTGCA TCACAGCCAA A 381

SEQ ID NO:2632
 SEQUENCE LENGTH:370
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03068

SEQUENCE DESCRIPTION:
 GATCCGTAAG TCCATGACCA AGGAGGCCAT CCGAGAGCAC CANATGGCCC GCACTGGCGG 60
 CACGAGACAG ACCTGTNCAC CTGCGGCAAG TGCAGGAAAA AGAACTGCAC CTACACACAG 120
 GTGCAGACCC GCAGCTCTGA TGAGCCCATG ACCACCTTN TTGTCTGCAA CGAGTGTGGA 180
 AACCCTGGA AGTCTGCTG ACCCCTCGTG TAGATGTGCT GCAGCCTTGG GCCCTCCCCG 240
 GCCCACGTCC TCCGTTGACA CAGCTTCTNT GGAGACCCTA GAAGGCGGCA TGTCTGCCC 300
 TCAACCTGCC TGCNTGGATT GCACCTTCT GCCCTTTCCC CNTNATTATT AAATGTTTCT 360
 TTTTGCCAAA 370

SEQ ID NO:2633
 SEQUENCE LENGTH:344
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03069

SEQUENCE DESCRIPTION:
 GATCTTCTTC AAGCCATTAT TTAACTCAA GAAAACTCTA GAGAAGAAAA GTGAAGAAGT 60
 CATGTTGAAG AAGATGTAAG AATGTGTCAA GACCATCCAG AAATNATATG AGAAATACTG 120
 ATATTTTAAA TGGTTGACAT CATCCAGCGA AATGAATCTA CATTAAATGT TGTTTTAACT 180
 GCGCTATGAT TAAAACCATT CATATAGAGT TAGTNTTAC AACTACTATT CTGTTATTTT 240
 TTTTTTAATC TGACAACATT TGTCTAAGT AAGATAAGCA AAAAAATTCT TCAACTCCTT 300
 TTGGCAAGAA AACTGTAACA GAAAAAANT TTTGAATGTG TACN 344

SEQ ID NO:2634
 SEQUENCE LENGTH:341
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03070

SEQUENCE DESCRIPTION:
 GATCCCTGGT CCAGAATTCC ATTTACCTTC TGGGCCAGAT ACCACCAGAA TGCCCGCTCC 60
 ANATTCCCTC AGACCTTTGC CGGTCCCAT ATTGGTCCTG GTGGTACAGC CAGTGCCAAC 120
 TTCGCTGCCA ACTTTGGTGC CATTGGTTTC TTCTGGGTTG AGTGAGATGT TGGATATTGC 180
 TATCAATCGC AGTAGTCTTT CCCCTGTGTG AGGCTGAAGC CTCAGATTCC TTCTAAACAC 240

AGCTATCTAG AGAGCCACAT CCTGTTGACT GAAAGTGGCA TGCAAGATAA ATTTATTTGC 300
 TGTTCCTTGG GCTACTGNTT TTTTCCCCT TGTGTGCTGT N 341

5 SEQ ID NO:2635
 SEQUENCE LENGTH:340
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03071
 10 SEQUENCE DESCRIPTION:
 GATCGNCAAG AAAATTNAGA TTGGCGATGG GGCAGAGCTG ACGGCAGAGT TCCTCTACGA 60
 CGAGGNGCAC CCCAAGCAAC ACGNCTTCAA GCAGGCCTTC GCCAAGCCCA AGGGCCCAGG 120
 GGGCAAGCGG GGCCATAAGC GCCTCATCCG NGGCCCAGGT GAAAATGGGG ATGACAGCTA 180
 15 GGAGGCTGGA GCATNNGNCG GCCACGTNTG GACTGTGGGG CTGCCACCT TCCGCTCCCT 240
 GCCACCATCC TCCTTCCTGG GCTCCAGGAA AGTNTTCTG GGAGGTCAGG AGGGCTGGCA 300
 GCTTGAACGC ACTTGCAGCG TCCGANGGNC ACCGGGCTTN 340

20 SEQ ID NO:2636
 SEQUENCE LENGTH:335
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03072
 25 SEQUENCE DESCRIPTION:
 GATCTGTCTG CNTTCCTCAA GACCATTGCA CTGAATGGTG TGGAGGACGT GCGAACCGTG 60
 CTGGAGCACT ATGCCCTGGA GGATGACCCG CTGGCGGCTT TCAAACAGCG GCAAAGCCGG 120
 CTAGAGCAGG AGGAGCAGCA GCGCCTGGCC GAGCTCTCCA AGTCCAACAA GCAGAACCCTC 180
 TTCCTTGGCT CCTCACCAG CCGCTTGTGG CCTCGCTCCA AACAGCCCTG AACTCTGGGC 240
 30 CTCCTCAAAC TCAGTGCCTG GGTCCAGGGC CCCAGTGCTT CCAGACCAAG ACTTGGGCCA 300
 CCACTTNTCC AATAAAGTAC ATCCGAGACG GCAA 335

35 SEQ ID NO:2637
 SEQUENCE LENGTH:332
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03073
 40 SEQUENCE DESCRIPTION:
 GATCCAGTTG TGAACAAAGA GTCCTCTTNG TGGAAAAGAA AAAAATACAT NTCCCTTTAA 60
 ACGGTGGATT GAAAATAACT TTNATTTATA AAGAGAAGAC TGAGGGCGGG GATACTGATT 120
 CANNAATCCT GTAGCGTGTA ATAAAAGAAG AGGAAATGGC ATGGAATCAC TGCCTCCTGT 180
 GATTTGAAGG CCATTGTGAA GGAAAACAAT GCAGTGAAG AAAGTTCTTC ATATTAGGCC 240
 45 AGATATCATT GCATCACATT TATTATCTT TCTGGNATTT TTATAGCCCT TAATAAAAAA 300
 TATTAATAA GCCTGTGCTA TTGTGTCTTA AA 332

50 SEQ ID NO:2638
 SEQUENCE LENGTH:335
 SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS03074

SEQUENCE DESCRIPTION:

5 GATCAAGAAT TTGGTGTGGA CGTTGGCCCT GTTTGCTTTT TATAAACCAA ACTCTATCTG 60
 AAATCCCAAC AAAAAAATT TAACTCCATA TGTGTTCCCTC TTGTTCTAAT CTTGTCAACC 120
 AGTGCAAGTG ACCGACAAAA TTCCAGTTAT TTATTTCCTAA AATGTTTGA AACAGTATAA 180
 TTTGACAAAG AAAAATGATA CTTCTCTTTT TTNGCTGTTT CACCAANTAC AATTCAAATG 240
 CTTTNGTTT TATTTTTTTT ACCAATTCCA ATTTCAAAAT GTCTCAATGG GGCTATAATA 300
 10 AATAAACTTT CAACACTCTT TTATGGTNAA CCAA 335

SEQ ID NO:2639

SEQUENCE LENGTH:384

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03075

SEQUENCE DESCRIPTION:

20 GATCAAGCCT GCCTCAATCA GTATTCATAT TTATAGCCAG GTACCTTCTC ACCTGTNAGA 60
 CCAAATTNAG CTAGGGGGGT CAGCCAGCCC TCTTCTGACA CTAACACACC TCAGCTGCCT 120
 CCCAGCTCT ATCCCAACCT CTCCTCACTA TAAACTAGG TGCTGCAGCC CCTGGGACCA 180
 GGCACCCCA GAATGACCTG GCCGCAGTGA GCGGATTGA GAAGGAGCTC CCAGNGGGG 240
 CTTCTGGGAA GACTCTGGTC AAGAAGCATC GTGTCTGGCG TTGTGGGGAT GAACTTTTGT 300
 25 TTTTGTCTCT TCCTTTTTTA GTTCTTCAA GATAGGGAGG GNAGGGGGGA ACCATGAGCC 360
 TTTGTTGGCT AATCANTCCC AAGN 384

SEQ ID NO:2640

SEQUENCE LENGTH:352

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03077

SEQUENCE DESCRIPTION:

35 GATCAAGGT TTAAAGTCTA ACTTCTAAGA TATATTTGCA GAAAGAAGCA ACATGACAAT 60
 AGAGAGAGTT ATGCTACAAT NATTTCTTGG TTTCCACTTG CAATGGTTAA TTAAGTCCAA 120
 AAACAGCTGT CAGAACCCTG AGAGCAGANC ATGAGAACT CAGAGCTCTG GACCGAAAGC 180
 AGAAAGTTTG CCAGGNAAAA AANNGGCATC ATTATTACCA TCGATTCACT GCCTGGTTAA 240
 NGNGGNAAGC TTAATTNGTT TNAGTGGCAG CCNCNTNGCA CGTGGTTTGC TATGNAGGTG 300
 40 AANGGTTTCC CAATTCCTTC AGGCTTTTTN GGGGGTTTTT GGGCTCTNCC TN 352

SEQ ID NO:2641

SEQUENCE LENGTH:321

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03078

SEQUENCE DESCRIPTION:

50 GATCAAACAG CTCTAAGTAT GAAGCAAGAG TAAAGACTAA GGTTTCGAGA NCATTCCTAC 60
 TCACATAAGT GAAGAAATCT GTCAGATAGG AATCTAAATA TTTATAGTGA GATTGTGAAA 120

55

EP 0 679 716 A1

5 GCAACCTTAA AGTTTTGAAG AAGACTGATG AGACTAGGTG CNNNGCTTCC TTTCATCAGG 180
 TATCTTTCTG TGGCATTGGA GAACAGAAAC CAAGAAACAT GGTAATTNCT AANTTATGAG 240
 GCTTTGCTTT TTGTTTGCTT TTAAGTAGAA AACCATGTTG GCAACATTGA GTTTTGGNGT 300
 TGATTGAGAT AATATGNCCT N 321

10 SEQ ID NO:2642
 SEQUENCE LENGTH:320
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03079
 SEQUENCE DESCRIPTION:
 15 GATCTTTGGC TGGAAACTA GAATTTATAG CAGTTTATTA ATGATACCTT AAATNACTCA 60
 GGACTTAATG TAGCATTGCA CTTCTGTGTA CAGTAAACT GCTTTGTTTT ACTAAAGAGA 120
 AAAATGTGAG TGGAAAAAAT ATGTATGTGT TATATACTCA AATGTATATA ATNCTATCTA 180
 TAGATTTATA TATGTATACA TTCTGTACAG TAGTTCCATC AAAATATGTA ATAATTCACA 240
 CCAATTTTAT TAAATGTATT TNCTTTTTC AATTTAAAT TGAGCTGCTA TCAATATTAA 300
 20 ATGAAGTTAT GGCATCTAAA 320

25 SEQ ID NO:2643
 SEQUENCE LENGTH:303
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03080
 SEQUENCE DESCRIPTION:
 30 GATCCCTTCG ATGTGGATTC AGGGAGAGAG TTTGGAAACC CCAACAGGCC TGTGGCATGC 60
 ACCCGGCTGC CCTCGGACAC TGATGACAGT GATGCGTCTG AGGACCCAGG GCCTGGCGCC 120
 GAGCGCGGAG GAGCCAGCAG CAGCTGCTGT GAAGAGGAGC AGACGCAGGG ACGGGGGGCT 180
 GAGGCCAGGG CCCCGGCTGA GGTTTGAAA GGAATCAAGA AACGGCAGAG AGACTNAGGG 240
 TTGCAGACAC ATATATTTT GAGGCTGGGT GACGAGAAA TCTAGAGACA TGAGGGACAT 300
 35 AAA 303

40 SEQ ID NO:2644
 SEQUENCE LENGTH:315
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03081
 SEQUENCE DESCRIPTION:
 45 GATCCAGACG CAAGANGGCT GTCCTCTCTA AGGAATATGG TTTTNTNCTT CTAAGTGGT 60
 CTGCCAGCTT TATAATGGTG GCCCACCTAG CCATCANTGT TTCCAAGGCC CGCAAGANGT 120
 ACAAAGTGGA GTATCCTATC ATGTACAGCA CGGACCCTGA AAATGGGCAC ATCTTCAACT 180
 GCATTACGCG AGCCACACAG AACACGTTGG AAGTGTATCC TCCCTTCTNA TTTTNTCTAG 240
 CTGTTGGAGG TGTTTACCAC CCGCNTATAG CTTCTGGCCT GGGCTTGGCC TGGATTGTTT 300
 50 GGACGAGTTC TTTAN 315

55 SEQ ID NO:2645

SEQUENCE LENGTH:314

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03082

SEQUENCE DESCRIPTION:

5 GATCCTTCTT GGGCCAGAA AGTCATTTGG CATGGCTCCA GGGCCCATGG CATCCGCTTN 60
 TGGATACTA CTGTGAAGCA TGGCGAACCG CGGACACAGC GGTACGGGA CTGCGCTCCC 120
 CGCTGAGCAC GGGGAAGATT CTGGACCAGA AAGCATACAG CTGTGCTAAT CGGGCTAATT 180
 10 GTCCTATGTA TCGAAAACAG TTTCATGNCA GNCGTTAGGA AGTAATTGGC TTCTTNATGA 240
 TTCTTAAAN GNGTTTTCAA TTTTCCTAA TGNGAAGNGT TGNGACTGAA ATCTAAATG 300
 TTTANTTGTG NAAA 314

SEQ ID NO:2646

SEQUENCE LENGTH:310

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03083

SEQUENCE DESCRIPTION:

15 GATCACTGTG GACAGGGTGC AGCTCTACCA GTTCCTGTTT CTNCTGAGCC AGACCCTCTT 60
 CAGGGAAGGG ACCAATTAAT TTTAAACTC ACTTGAAGCA CAGCTGGTCA TGGGGCTTGG 120
 TATAAAGTTC CTATTTCCAC CCTGATACTT CCAATTCCTG GAACCCAGC CCACTCCNCC 180
 ATCCCTCCTC CCTATCAAAC TAGTATAATG ATTTTGAATC GGTACAGTGT GTTTAACTGT 240
 25 AACTAAGTTC GACAGACTAT TATTATCTTT GTAATAAATT AACCTAGCAA TAAAAATTAT 300
 TCTGTNTAAA 310

SEQ ID NO:2647

SEQUENCE LENGTH:308

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03084

SEQUENCE DESCRIPTION:

30 GATCTATTAA GCTTGANACA TTANGTNTCA TCACGCACTG AAGACAGGAA GCAGTTCACT 60
 GAGTCAGCTG GTTCCCAAGC TCGCACAGAA GGTGATAAGT TACTATCAAA TGCCAGTNAG 120
 AATCTNCTTA TAGAATAACC TGGGCCCAAG TNATTTTNGT AAAAACTTG CCCTTCTTTG 180
 GTTTAATTN CTATGTGCTT TTAGGTGTGA ATCCAGATAT GCGGTCTTAA TTCCTTTGGA 240
 40 AATACACAGT TCGTTTAGTT ACTGTACACT CTGTTTGTTC AATAAACTGC ATATCANCTT 300
 CCNACAAA 308

SEQ ID NO:2648

SEQUENCE LENGTH:302

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03085

SEQUENCE DESCRIPTION:

50 GATCAGCAGC CCCTGAGCGG AGAAGAGGAG CTAGAGCCTG AGGCCAGTGA TGGTTCAGGC 60

TCCTGGGAAG ATGCAGCTTT GCTGACGGAG GCCAACCTGC CTGCTCCTGC TCCTGCTTCT 120
 GCTTCTGCCC CTGTCCTAGA GACTCTGGGC AGCTCTGAAC CTGCTGGGGG TGCTCTCCGA 180
 CAGCGCCCCA CCTGCTCTAG TTCCTGAAGA AAAGGGGCAG ACTCCTCACA TTCCAGCACT 240
 TTCCACCTG ACTCCTCTCC CCTCGTTTTT CCTTCAATAA ACTATTTTGT GTCAGCTTCA 300
 AA 302

SEQ ID NO:2649
 SEQUENCE LENGTH:302
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03086

SEQUENCE DESCRIPTION:
 GATCAGCGAG CTACCANGAC CAGAGACCAA CTCAAGCTAC AGCAGAAGNA TTTTCCAAG 60
 CCTGTGACC ACAGTCACAT CACCCATCAG CACATGGAAG GCCCCTGGTA TGGACACTGA 120
 AAGGAAGGGC TGGTCTGCC CCTTTGAGGG GGTGCAAACA TGAAGAGCCA 180
 GAGGCTGTGT AGAGGCTCCT GCTCCACCTG CCAGTCTCGT AAGANATGGG GTTGCTGCAG 240
 TGTGGAGTA GGGGCAGAGG GAGGGAGCCA AGGTCCTCC AATAAAACAA GTCATGGCA 300
 AA 302

SEQ ID NO:2650
 SEQUENCE LENGTH:303
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03087

SEQUENCE DESCRIPTION:
 GATCCCAGCT GATGTAGACC CTCTACCAT TACTTCATCC CTGTNATCTG ATGGGGTCCT 60
 CACTGTGAAT GGACCAAGGA AACAGGTCTN TGGCCCTGAG CGCACCATTG CCATCACCCG 120
 TGAAGAGAAG CCTGCTGTCA CCGCAGCCCC CAAGAAATAG ATGCCCTTTC TTGAATTGCA 180
 TTTTAAAAA CAAGAAAGTT TCCCCACCAG TGAATGAAAG TTTTGTGACT AGTGCTGAAG 240
 CTTATTAATG CTAAGGGCAG GCCCAAATTA TCAAGCTAAT AAANTATCAT TCAGCAACAG 300
 AAA 303

SEQ ID NO:2651
 SEQUENCE LENGTH:296
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03088

SEQUENCE DESCRIPTION:
 GATCTCAGCT GGAAGTTCTG TTTGGAGCCC ATTTCTGTNA GACCCTGTAT TTCAAATNTG 60
 CAGCTGAAAG GTGCTTGAC CTCTAATTC ACCCCANAGT TGGAGTTCTG CTCAAGGAAC 120
 GTGTGTAATG TGTACATCTG TGTCATGTG TGACCATGTG TCTGTNAGGC AGGGAACATG 180
 TATTCTCTGC ATGCATGTAT GTAGGTGCCT GGGGAGTGTG TGTGGGTCCT TGGCTCTTGG 240
 CCTTCCCTC TGCAGGGGTT GTGCAGGTGT GAATAAAGAG AATAAGGAAG TTCAAA 296

SEQ ID NO:2652

SEQUENCE LENGTH:291

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03089

SEQUENCE DESCRIPTION:

GATCTNACGG CCAGGCCTCT NTCCTGCTGC TGTITTTAAT TTTCCCAGGT AGTGGGAGAG 60
 AGGAAAGGAG GGAAGGCAAG ATTCTTTCCC CCTCCCTGCT GAAGCATGTG GTACAGAGGC 120
 AAGAGCAGAG CCTGAGAAGC GTCAGGTCCC ACTTCTGCCA TGCAGCTACT ATGAGCCCTC 180
 GGGGCCTCCT CCTGGGCCTC AGCTTGCCCA GATACATACC TAAATATATA TATATATATA 240
 TGAGGGAGAA CGTNTCACC AGNTTNTATC ATGCTGGAAA GAGTGTATGT N 291

SEQ ID NO:2653

SEQUENCE LENGTH:290

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03090

SEQUENCE DESCRIPTION:

GATCTAAAGG GTGTAAAAAT ATTGATACTT CAATATTTCA CTTGCTGCCA GGAAAAACAA 60
 AATTCTCAAT CTTTGTGAAA TGGGAGGAGG ACTTTTGCAT ACATTTTAC TCTTTAAATA 120
 ACGACAACGA CACTTATACT GTCATAATAA CAATNATGTA TTTCTTTGTG GTTTTAATTT 180
 TTTTGTGAAT TTTACATAAA ACAGTTATTT TCTATTTNA CGCAGATAAA TATTTGTGCA 240
 TAAAAATGTAA AAATAGTAAA ATGAGAAAAA TAAAACTATT ATACAGTAAA 290

SEQ ID NO:2654

SEQUENCE LENGTH:287

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03091

SEQUENCE DESCRIPTION:

GATCTGTCCT CAGCTCTGGA CCCAATTCCC CTTACTTCAT TTTGGCAAAC ACTAAGTCAA 60
 ATAGTGAAAT GCCTGTCACT ACATAGAACC TATTACCTGG GGCAAATACG AACAGATTGA 120
 GTTTCCTTCA TCTTGTGTAA ATATGATGAA ACAGAGACCT GGTAACCTGG TGACACTGTT 180
 AAACCCTTTT NGGGATAAAG CCAAATGTAA ATGGAAACAT TAAACAGATA ANTTGTGGTG 240
 TTGAGACTTT TCTGAATTGA GAAAAATAAA TGTAATTTTG GAAGAAA 287

SEQ ID NO:2655

SEQUENCE LENGTH:287

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03092

SEQUENCE DESCRIPTION:

GATCTGACCG GCTTCAAGCT CAAGCCCTAC GTGAGCTACC TCGCCCTNA NGAGCGAGGA 60
 GACGCCCTG ACGGCCGCGC ACTCTTTCAG CGAANCNGTG GCGCCTGCCA TCGAAAAAGNA 120
 CTTCAAGGAC GGTACCTTCG ACCCTGACAA CCTGGAAAAG TACGGCTTCG AGCCACACA 180
 GGAGGGAAAG CTCTCCAGC TCTACCCAG GAACTTCCTG CGCTANTGGG CGGGGGAGGG 240

CGCGCCTGCC CTCATCTCAT TTCTATTAAA CGNCTTTGCC AGCTAAA

287

SEQ ID NO:2656

SEQUENCE LENGTH:341

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03094

SEQUENCE DESCRIPTION:

GATCGTGGAG GAGGGACAAC GCTGCCACCG NTTGCGNCTGC AACACGTGCC CCTACGTGCA 60
 CAACATCACC CGCAAGGTAA CAAATCGGAA GTACCCAAAA CTGAAAGAAG TGGATGATGT 120
 GCTTGGTGGA GCAGCTGCCT GGGAGANTGT TGA CTCTACT GCAGAGTCGT GTCCCAAATG 180
 CGAACATCCT CGTGCTTACT TCATGCAGCT TCAGACCCGC TCTGCAGATG AGCCGATGAC 240
 CACCTTCTAC AAGTGCTGCA ATGCTCAGTG TGGACACCGC TGGNGGGATT NGGGNCAGGT 300
 NTGGCCCGAGC TGGCCTNGTG TGTGCTTGCC TTGTNCCTCN N 341

SEQ ID NO:2657

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03095

SEQUENCE DESCRIPTION:

GATCCACAAG GTTGTCTGCT AAACCTGCTC CTCCAAAGCC ACAGCCCAAG CCTAAAAAGG 60
 CCCCTGCAAA GAAGGGAGAG AAGATACCA AAGGGAAAAA GGGAAAAGCT GATGCTGGCA 120
 AGGAGGGGAA TAACCTGCA GAAAATGGAG ATGCCAAAAC AGACCAGGCA CAGAAAGCTG 180
 AAGGTGCTGG AGTTGCCAAG TGAAGTGTGT GCATTTTGA TAACTGTGTA CTTCTGGTGA 240
 CTGTACAATT TCAATACTA TTTTATCA AGTTTAAA 279

SEQ ID NO:2658

SEQUENCE LENGTH:279

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03096

SEQUENCE DESCRIPTION:

GATCTGAATG TNCAGTTCTA GCCAAGGTAG ATTTTACTTT CAACTTTTGA ATCAGTATCA 60
 CTTTCTGTGC TTAACIATTT GGTGTTACCT TGTCTGTTTT CATTGTCTA AAATNCTGTA 120
 GAGATGACTA AAATTGACA TAATGGTGTA AATGGATTGT NAAGGTAAC TTCAGTTGAN 180
 GATTAAAGCA AGANGCCATT TTCCCATGA CTTTGGTTTT GTTTACATTT TNCCCTTTCA 240
 GTTAGTATAC ACTACACGTA CTGTAATAAA GTNCAATAN 279

SEQ ID NO:2659

SEQUENCE LENGTH:274

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03097

SEQUENCE DESCRIPTION:

5 GATCTTTNCT AAAGCAAGGC CTTGAGCAAG TAGGTTGCTG TCTCTAAGCC CCCTTCCCTT 60
 CCACTATNAG CTGCTGGCAG TGGGTTTNTA TTCGGTTCCC AGGGGTTGAG AGCATGCCTG 120
 TGGGAGTCAT GGACATGAAG GGATGCTGCA ATGTAGGAAG GAGAGCTCTT TGTGAATGTA 180
 AGGTGTTGCT AAATATGTTA TTGTGGAAAG ATGAATGCAA TAGTAGGACT GCTGACATTT 240
 TGCAGAAAAT ACATTTTATT TAAAATCTCC TAAA 274

10 SEQ ID NO:2660
 SEQUENCE LENGTH:259
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03098
 SEQUENCE DESCRIPTION:
 15 GATCTGCCTG CNTTGGCCTC CCAAGGTGCT GGGATTACAG GTGTGAGCCA CCACCCCAG 60
 CCGCCTCTAT GCTTTTGGNT TCTTTGATAT ATCTAAACTT AAGGTCAGAA CAGAAATTCA 120
 TGTGCTGAAC AGAATGGATT CTTTTGTCAG TACCAATCCA ATTGAATCCT CTTTTIATTT 180
 TCCTGCGTCC TTACCAGTCA CTTTGATAGT GCTAACTAAC CTACACTATG GGGGTTATTC 240
 ATGANTTAAG TATGATAAA 259

20 SEQ ID NO:2661
 SEQUENCE LENGTH:272
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 25 CLONE:HUMGS03099
 SEQUENCE DESCRIPTION:
 GATCTGTGTT TGTAATACTG GTTGTAAATTA ATTTTTTTAA TTCATGAACN AGCGGAAAAT 60
 TTATTAAATT AACTATTAAC CACATTCACC TTGTAAATGA CTGTATAAAA CTNGTNGACA 120
 30 ATGCACTGAC TTTAGAAAGA TGTTAATGTG CATAANTNGA GTGTAAATAA NATAGTGTG 180
 ATGTACTGAN ATATGACCTG TATAANNNGT ATTAGTAATT GTNTATGGGG TGTACCTGTT 240
 TATCTGTAAC TGTNATCCAA ACAAATNAAA TN 272

35 SEQ ID NO:2662
 SEQUENCE LENGTH:270
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03100
 40 SEQUENCE DESCRIPTION:
 GATCTATCTG GNNTGTGCNT TAGACTNGAT GAGAAGGTGT GAACTCTGCA GAAAGTCTCT 60
 CCTTCATCAC TGAATTCAGT CACTTGGAGA TGACAACTTC AAATGCTAAC CCGATGACCC 120
 CAGAAAACCG TGTGAGATTC GTACCGAAGA ACCTTGTGGA ATCCCTTTNC TTAGGCCCAA 180
 45 CCTGGTCGAT AGCTCGAGAA AGANTNTTNN CCAAGGAAAT GTCTCGGATA TGGGTACTGT 240
 ATTTGAAAGC TGTTAGCTTT GTCAACACGN 270

50 SEQ ID NO:2663
 SEQUENCE LENGTH:268
 SEQUENCE TYPE:nucleic acid

55

TOPOLOGY:linear

CLONE:HUMGS03101

SEQUENCE DESCRIPTION:

GATCATGAAT CAAGCCCTGG AACAGATGAA GACAAAAGCG GATGAGTGAG TTATATAAAC 60
 TTACTTCCAT TCTGTTTCGG ATTTTAAGTT TGAGAGACTT GCTAATNAAT CTCCTTTATG 120
 TTGTTTTCCT TTTCATTGTT TTTGGATTGT TTTATGTTG TCCTTTTTTT TCTTAATGTG 180
 GATTTTCATTG AGTTGATTTT TTGATAATCT GCAATCTGGA TAATTTGTAC TGCTAAAGTT 240
 TTAATAAACT CGACATGAGA AAAACAAA 268

SEQ ID NO:2664

SEQUENCE LENGTH:267

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03102

SEQUENCE DESCRIPTION:

GATCAAAATA GTAATAAATC AACAAATAAT TTTGATTGA CTGGTGGAAT TAGATTTACT 60
 AAATAAAAT GGCTTAAATT TTGACTGTAC TAACTATAAA TGTAATGAAT TATAATAATT 120
 ATAAATGGTA TAAATGCATT CTACAATGTG ATTATTTTCT GTATTTTAGT ATATAGTATA 180
 AAATGGAATT ATGGGGTTAA AGTACTTTTA TTACATTCT TAATCCATTG TTTTACCTA 240
 ATAAATTTT CTCCTCTATA TTCCAAA 267

SEQ ID NO:2665

SEQUENCE LENGTH:266

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03103

SEQUENCE DESCRIPTION:

GATCCGAATC TGTGCCAGC GCTAAAGGCT CAGTGTTAGC ATGGCTNNN CTGNCCGGTG 60
 TGCCATATTC TTGTTGGAGA TGAACCGTAG CACCAGAGCC CATTCCTCCT TGTCAGTCTT 120
 GGCCCAAAGA TGTACCATT CCTAGTTATT TGTACCACA TAATTGGTGT TGATTGGAAA 180
 CTTTTCTGA GATGGGACAG AACTGCTGGG TTGTCTTTT CCATGTAAT TAAGCATAGT 240
 AATATAAATA AAGTAATAGT TGGAAA 266

SEQ ID NO:2666

SEQUENCE LENGTH:265

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03104

SEQUENCE DESCRIPTION:

GATCCTCCCT GTCATGCCAC ATTTCACTGA TTGGAATGTG GAAATGGAAA AGGAATTTAG 60
 GATGTGCATT TTCACCTGAG GTTCCCTGC ATCCCTGCAG TGCCAAAGCC CCACCTTCAG 120
 GGACCACCTG GAATGTGTGA GGGGCTGACA GCACAGTAAC GTGCATACAT ATCTGCAGGG 180
 CTGGAATGGA AGCTTTAAAG GTGGTAGTGA TTTTNATTTT GGAAGAATCA TGTTACCTTT 240
 TTGTTAAATA AAATTTGTAC TCAAA 265

SEQ ID NO:2667

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03105

SEQUENCE DESCRIPTION:

GATCCAGTGT CCATGGAAAC ATTCCACAT GCCGTGACTC TGGACTATAT CANTATTGG 60
 AAAGCAGGGT TCCTCTGCCT GCAAACAAGC CCACGTGGAC CAGTCTGAAT GTNTTTCCTT 120
 TNCACCTATG TTTTAAAGTA GTCAAACTTC AAGAAACAAT CTAAACAAGT TTCTGTTGCA 180
 TATGTGTTTG TAAACTTGTA TTTGTATTTA GTAGGCTTCT ATATTGCATT TACTTTGTTT 240
 TTGTAAGTCC TGATTCTCCC TTTNCGGATA CTATTGATGA ATAAAGGANT TAANGTGGAT 300
 AAA 303

SEQ ID NO:2668

SEQUENCE LENGTH:263

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03106

SEQUENCE DESCRIPTION:

GATCAACCAA GGCAGATGTG ACAGCAAGGG CCACGGACCC CATGGCAGGG GTGGCGTCTT 60
 CATNAGGGAG GGGCCCAAAG CCCTTGTGGG CGGACCTCCC CTGAGCCTGT CTGAGGGGCC 120
 AGCCCTTAGT GCATTCAGGC TAAGGCCCTT GGGCAGGGAT GCCACCNTG CTCCTTCGGA 180
 GGACGTGCCC TCACCCCTCA CTGGTCCACT GGCTTGAGAC TCACCCCGTC TGCCAGTAA 240
 AAGCCTTCT GCAGCAGCTG AAA 263

SEQ ID NO:2669

SEQUENCE LENGTH:258

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03108

SEQUENCE DESCRIPTION:

GATCTGGCCT AGGTCCCCC TTTNTNCTGT CCCCTGTNTT TAAGTCGGGA TTTTACAGA 60
 GGGAGCTGTC TCCAGACAGC TCATCAGGAA CCAAGCAAAG GCCAGATAGC CTGACAGATA 120
 GGCTAGTGGT ATTGTGTATA TGGCGGGGAC GTGTGTGTCA TTATNATTG AGTTATGCTG 180
 TTGTTTAGGG GTAAATAACA GTAAATAATT AATAATAATA ATAATAATAN TAATAATAAN 240
 GGNGCNGACG TTCTTAAA 258

SEQ ID NO:2670

SEQUENCE LENGTH:257

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03109

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA TCACACCTGG 60
 TCAACTTCT TTTGATTAGT GTTTTGTGG TATATCTTTT TCCATCATGT TACTTTAAAT 120

ATATCTATAT TATTGTATTT AAAATGTGTT TCTTACAGAC TGCATGTAGT TGGGTATAAT 180
 TTTNATCCAG TCTAAAAATA TCTGTCTTTT AATTGGNGTT TAGACAATTT ATATTTAATA 240
 AAATGGNNGA ATTTAAA 257

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SEQ ID NO:2671
 SEQUENCE LENGTH:257
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS03110

SEQUENCE DESCRIPTION:

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GATCAGATGT NGCTCAGAAA CTTTCATTGT TTACCTAATA ATTTAATATC ACTAGTTTCC 60
 TAGTGGGTCA AGCAGATGCA AAANCCAGCT TATTCCTCC TATGINCTCT CAAGCTTATN 120
 GCTTATTNA AAGTAAAANC CTGAAAAAGG AAAATATTAG GTTGGTGCAA ACGTAATTNC 180
 GGTTTGGCCA TTGTNGAAAT TTGCCGTTT ATATTGGAGT ACATTCTTAA NTAAATGTGG 240
 TTATGTTATA CATCAA 257

20

SEQ ID NO:2672
 SEQUENCE LENGTH:256
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03111

25

SEQUENCE DESCRIPTION:

30

GATCAATTAC TGTCTCACT TAGAACAAAG CCTGAGTCCG AGAATATTTA TATTTTACCA 60
 ATATATGCCT GTTACAAGAG AAGGAAATAT GAGTTATTTA AGTTTAACTT TTTTATGTGA 120
 ATTCAGAGTT TATTATCGA GGGAAATATG TACAAAGAAG CTTCAAATGG AATATTACC 180
 GACATTCCTT ATACATGACA GACACTNGGC TACATGGGAA GATGATGTTA ATAATAANNT 240
 GATTTTAAAN TGGA 256

35

SEQ ID NO:2673
 SEQUENCE LENGTH:256
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03112

40

SEQUENCE DESCRIPTION:

GATCTGGAGA GGATTAGGGA CGGCTCTTGT GGGCACATTT TNNCTCTAGT TTCATGGGTG 60
 GAGATGGCAT CTCCTGTGGT CTGCAGCATG CAAGTAAAGA CACCAGGTGG CACCATTNAT 120
 NAGCTTTCAA TCCCATGGAG AGGTCCCATC ATGTAAC TNC CAAGAGGTTG AAGGAACCAA 180
 CTACCTCTTG CATATTGTNG CTAATGGTTC TNGCCTTCTC CTTCCAGACT TGGGAAATAA 240
 NTTNAAAAT NGTAAA 256

45

SEQ ID NO:2674
 SEQUENCE LENGTH:433
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03115

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SEQUENCE DESCRIPTION:

5 GATCTACCTT GGTGATTGG ACCCTGGTTG CTTTGTGTCT AGTTTTCTAG ACCCTTCATC 60
 TCTTACTTGA TAGACTTACT AATAAAATGT GAAGACTAGA CCAATTGTCA TGCTTGACAC 120
 AACTGCTGTG GCTGGTTGGT GCTTTGTTTA TGGTAGTAGT TTTNCTGTAA CACAGAATAT 180
 AGGATAAGAA ATAAGANTAA AGTACCTTGA CTTTGTTTAC AGCATGTAGG GTGATGAGCA 240
 CTCACAATTG TNGACTAAAA TGCTGCTTTT AAAACATAGG AAAGTAGAAT GGTGAGTGC 300
 AAATCCATAG CACAAGGTAA ATTGAGCTNG TTANGGCAAT CAGGTAAAAT AGTCATGNTT 360
 10 CTNTGTNATG TAANCCCGTA AATGANTGTT CCTGGTTTCN CGGTGGTTTT TTNANGGGNC 420
 NCNTTNANNT TTN 433

SEQ ID NO:2675

SEQUENCE LENGTH:250

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03116

SEQUENCE DESCRIPTION:

20 GATCAGAAGA AAGAAAGACA ACTTTCCTCT GCGCGGAACA CTCACACGGA AGGGCTGGCC 60
 GCCTCCCTGA GCCGGCTGGG AGTNGACGAC AGGACCTACC TCCCAGAGC AAGGGCCTGG 120
 GGCTTCCCGC CAAAGCTGCC GCGGAACCCC GCTAGTGCGA CCACCTCCC TCCGTCGGTA 180
 TGTCTGCTT TCCAGCTGAA CCCAACTAC AAGTGGGTTT AAAAAATAA ACACCACCAC 240
 CAAAAACAAA 250

25 SEQ ID NO:2676

SEQUENCE LENGTH:247

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30 CLONE:HUMGS03117

SEQUENCE DESCRIPTION:

35 GATCTGAAAA AGATGGTCAT TCCGGACTCC TGACGCCGCC AGTCCCGCGG TGAGACGTGA 60
 GCNCCATTGG GTCCAGTGGC CTCNTTTCC GTGGCAACCT AGTAACCATT AATTTTNAAT 120
 TAAAGGAGAC AAAAAGCTCG ATGACAGCTC CAGGTCTGCT GAAGATGTCA AGAATCTGTA 180
 TTAATATACA GCAAGAGAGC ATAATTGTNT GTCCATCTTC CAGAGCAGCG AAAAATGGAG 240
 GGATAAN 247

40 SEQ ID NO:2677

SEQUENCE LENGTH:245

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03118

SEQUENCE DESCRIPTION:

45 GATCAAAACC ATCTGGCCA AAATGGTGAA CCCTGTCTCT ACTAAAAATA CAAAAATTAG 60
 CTGGGCATAG TGGCACGCCG CTGCAGTCCC AGCTACTCAG GAAGCTGAGG CAGGAGAATC 120
 GCTTGAACCC AGGAGGCAGA GGTGCTGTG AGCCGAGATT GCACCACTGC ACTCCAGCCT 180
 50 GGGCAACAGA GTGAGACTCC ATCTGAAAAA AAAAAANTNC AGGCNTGCAA GNTTGGCGTA 240
 ATCAN 245

55

SEQ ID NO:2678

SEQUENCE LENGTH:347

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03119

SEQUENCE DESCRIPTION:

GATCAGCAGG GCTACCATCT CACTCTTCTG TAATTCACA ACATTCTAAA GGAAGTAAAT 60
 CACCAGATTT GCTGATGTAT CAGGGTCCAC CAGACACTGC AGAAATAATA AAAACATTAC 120
 CTCAGNAATA CAGNAGGAAA CTTGTGTCTC AAGAAGAAAT GGAATTTATC CAACGTGGAG 180
 GTCCTGAATA ACCATGGTGG CTGCTGTTTG TCATCAGACA NTAGAATTGT CTTACAATA 240
 AAGGNCTTCC AAAATGGCAG ATGNAGAACT GTATATTAAC CACCTTTAGT AANTANTATG 300
 GANNAAGTGN NATNTAGGNN ATTTAGGTGG TCCCTNGGAT TNCCGNN 347

SEQ ID NO:2679

SEQUENCE LENGTH:242

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03120

SEQUENCE DESCRIPTION:

GATCTGGCCT GGAGAGGCCA TCCTATACCC CTTATTAGAG CCATGACAGC CTACAGAGTG 60
 AGGTGAGGTG CTCCACCTT CCCAGATGGT TCCTTTCTGC CCCTTCCTGG AAGGAAAGGT 120
 GAGGCTGCCA ATAGCCTCCT GGCACCAGCC AGACCTCACC CTTGACCAAC CTCTCGGGGC 180
 TGGGGGTTC AATCTGGGGC ACTGTGGCCT GGTTTTGCTT TGAAACCAAG AAAGAGCAAA 240
 GN 242

SEQ ID NO:2680

SEQUENCE LENGTH:411

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03121

SEQUENCE DESCRIPTION:

GATCCCCAAC AATGTGAAAA CGGCTGTCTG TNACATCCCA CCTCGGGGGC TAAAAATNTC 60
 CGNCACCTTC ATTGGCAACA GCACGGCCAT CCAGGAGCTG TTCAAGCGCA TCTCCGAGCA 120
 GTTCACGGCC ATGTTCCGGC GNAAGGCCCTT CCTGCACTGG TACACGGGCG AGGGNATGGA 180
 CGAGATGGAG TTCACCGAGG CCGAGAGCAN CATGAATGAC CTGGTGTCCG AGTACCAGCA 240
 GTACCAGGAT GCCACAGCCG AGNAGGAGGG CGAGTTCGAG GAGGAGGCTT AGGAGGAGGT 300
 TGGCCTAGAG CCTTCAANTC ACTGGGGAAA AGCAGGGGAA GCAGTGTNGA ACTCTTTTAT 360
 TCACCTCCNA GNCCTGGTCCN NGTNGGNCN GTTCCCACTG TGTGCAATTG N 411

SEQ ID NO:2681

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03122

SEQUENCE DESCRIPTION:

GATCTGCCGA CGGTGCACAG CCCACCAGAG CACTACAGCC TTTTATTGAG TGGGGTGGGG 60
 CAAGTGCTGG GCTGTGGTCG TGCCCTGACA GCATCTTCCC CAGGCAGCGG CTCTGTGGAG 120
 GAGGCCATAC TCCCCTAGTT GGCCACTGGG GCCACCACCC TGACCACCAC TGTGCCCTC 180
 ATTGTTACTA CCTTGTGAGA TAAAACTGA TTAAACCTTT GTGGCTGTGG TTGGCTGAAA 240

SEQ ID NO:2682

SEQUENCE LENGTH:237

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03123

SEQUENCE DESCRIPTION:

GATCACCTGG GGACAGAGGT GAAAGGCCTG CTGGGCCTGC TGGAGGAGCT GGCCTGGAAC 60
 CTGCCCCCGG GACCCTTCAG CCCCGCTCCC GACCTTNTCG GAGATGGCTT CTNAGCCCTG 120
 GAGCTGGAGC CCAGCAGTTG GAGGTGGTGC ACCTGCCAGG CAGCGCCAC AGAACCAGCC 180
 CTGTCTCTC GACTTCCTTC CTTAGCTTCA TGTGAAATAA AAGCTATTCT GGTCAAA 237

SEQ ID NO:2683

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03124

SEQUENCE DESCRIPTION:

GATCGGCATG GTCATTCACC AAGTGGAAGC CAAACCTCT GTGTATTTCA TCAAGTTTGA 60
 TGATGATTC CATATCTATG TCTACGATTT GGTGAAAAAG TCCTAACTGT TAGGGTAAAA 120
 TTTGGACAT GTGTGGAAC AAATGTATAA TTTGTAGACA TGCAAAAAAT GTTGCCCTTC 180
 AGTGTATTGA AAGCTTATGG AATCCCTGAT AACTAAACAT CTTTGCCAGC ATTAAA 236

SEQ ID NO:2684

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03125

SEQUENCE DESCRIPTION:

GATCACACAT ATCCTTCCTG AGANGAGCAG TGAATAAAT GGAATATCTT TTAAAGANCA 60
 GCTCCTCTTT AACAAAAAN CTAAAAAGAC AAATGTGAGA TGGGCTTAGA GTTAGTNCTC 120
 TGGGAACTTG AAAGACATTT ATGCCATATT ATTTATNCAC GTGTTGTNC CTGGTGGGCA 180
 AGATGCCATC TGAGGCTTCA GATGAGAAAT TGGGGTAANN TGAAATTTT NCACTN 236

SEQ ID NO:2685

SEQUENCE LENGTH:234

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03126

SEQUENCE DESCRIPTION:

GATCAATCCC TCAAGATTTT GAAATCCTGA AGAAATTGAG AAGTATGTTG CTGAAATTGA 60
 AAANGAAAAA GAAGAAAAACG AAAAGAAGAA AAAAAAGAAA GCATCATGAT GAATAAAATG 120
 TCTTTGCTTG TAATTTTAA ATTATATCA ATCATGGATG AGTCTCGATG TGTAGGCCTT 180
 TCCATTCCAT TTATTCACAC TGAGTGCCTT ACAATAAACT TCCGTATTTT TAAA 234

SEQ ID NO:2686

SEQUENCE LENGTH:230

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03127

SEQUENCE DESCRIPTION:

GATCTAGGCC TGGCAAGANC TCTGGCCCCA AGGCCTCCTC TTCCCAGGGG CTGCCAAGTC 60
 CTGGCCCTGG CCCTGGCATA TNACCCCGNA CTGTGGGGCC AGTCACCACT AGCCTGGCTC 120
 AAATATTCCC CAGGGAGACT NCTGTGTGCT GCCCGGCTNC CTGCTGGCTC TCCCCAGNC 180
 CCACATCCCN TCTNGAAGAG AATGTAAAT AAACCTGGAC ACAAGGGAAA 230

SEQ ID NO:2687

SEQUENCE LENGTH:232

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03128

SEQUENCE DESCRIPTION:

GATCCATGAG GTCCTAGCCC CTGGCTGCCT GGATGCNTTC CCCCTGCTCT CAGCATATNT 60
 GGGGCGCCTC ANTGCCCGGC CCAAGCTCAA GGCCTTCCTG GCCTCCCCTG AGTACGTNAA 120
 CCTCCCCATC AATGGCAACG GGAAACAGTG AGGGTTGGGG GGACTCTNAG CGGGAGGCAG 180
 AGTTTGCTTT CTTTCTCCA GGACCANTAA AATTTNTAAG NGAGNTACTA AA 232

SEQ ID NO:2688

SEQUENCE LENGTH:229

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03129

SEQUENCE DESCRIPTION:

GATCACAAAA TGTNATAAAA CTTTAAATGT ATAAAACTTT ATCAAATAAA GTTTTATTTT 60
 CCCCTTTAAA ATGTATTTNT TTAGAGGCAT TACTTTTTTA AAAATATTGG TCAATTNCNG 120
 ACATAAGATG TGAGGTTTAC AGTTGTATTC CAGTATTCAA GATAGATTCC TGATTTTCCA 180
 ATTAGGAAAA GTAAATCCA AAATGTTAGC AAAACAAAGT GCAATATTN 229

SEQ ID NO:2689

SEQUENCE LENGTH:223

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03131

SEQUENCE DESCRIPTION:

GATCCCATGC CCAGGTGTCC AGCAGACCTC AAGGCAGAAG GGTCACCTAA CCCAGGAGTC 60

CACAGACTGA TGTGACCTCA GGTTCACACA TCANTGGCCA CAGGGCAGGG CCCACCTGGT 120
 AGAAGTTTTC TGGATATGGC CAGGGTGGGT GTNTGGCTAA NTGGGCCTGA ACAGAGGGAA 180
 CCTAGGGCCC TTGGCCAATG TGATTAAAGC TGCCATCTTG AAA 223

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SEQ ID NO:2690
 SEQUENCE LENGTH:222
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03132

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SEQUENCE DESCRIPTION:
 GATCCGCCCT GGAGAAGTGA GTGGCTGAGA CCCGGGTGGG GCCCTCCTAA CCTTGGNTCT 60
 GGGGGCTTCC NTTCTGGGTC TTGTCCGGGA TATGGCCTTC CTGAAGGTCT TACCTCCCCC 120
 AGCCGCCCTG CACTTGACCA CCAAGCAAT CTCTAAGCTT ATAAAGGAGA AACATGTATA 180
 TATGGGGTTT TTTGGAGTAA AGGAAAATTC TAAGATATTA AA 222

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SEQ ID NO:2691
 SEQUENCE LENGTH:222
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03133

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SEQUENCE DESCRIPTION:
 GATCCACCTG CCTTGGCCTT CCAAGGTGTT GGAATTACAG GCGTGAGCAA CCGCGCCTGG 60
 TCTATATGTN ATTTCAAATN AGGTGGCCTT ATAAATATAA GCAGATGGGT TTCTGGGCAA 120
 AATCAAATNA TTTCTGTCTC TATTNNTTG AGTACCAATT GTAAAANCTG AAATTAGGTT 180
 GAGGAAAGTN CTTTAGAAAT AATAAAGATG TACAANTACA AA 222

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SEQ ID NO:2692
 SEQUENCE LENGTH:220
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03134

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SEQUENCE DESCRIPTION:
 GATCTGCCCC CCTCAGCCTC TTGAGTAGCT GGGACTACAG GTGCATACCA CCACACCTGG 60
 CTAATTTTTT AATTTTNATT TTTATTAAAG ACAAGGTCTC ACTATGCTGC CCAGGTTGGC 120
 CTCCCAAAGT GTTGGGATTA CAAGTGTGAG TCACCGTGCC TGGTCCCATG TACTTGANGT 180
 CATCACTANC AAAATGTATA GATATTGTAT AATGGCAACN 220

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SEQ ID NO:2693
 SEQUENCE LENGTH:219
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03135

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SEQUENCE DESCRIPTION:
 GATCTTTAAT AAAAATTGA TATGAAAAGC ACAATGTGCA GANGTTATGG AAAACCTATA 60
 GAGGATTACA ACAGGTAAAC GTTAAAGAGA ATACATTGCT GACTTATAGT GATGTGGCTA 120

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AGANGTACAT GCTTTGTTGT AAAATTNCTT GAAAGCCCAT TGAAAGATGT ATCTGTTTAT 180
TTACAGTCTT TGAAGTAAAA GTTACCAATG TTTGCCAAA 219

5 SEQ ID NO:2694
SEQUENCE LENGTH:219
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03136
10 SEQUENCE DESCRIPTION:
GATCTNGCCC CTGCGCTCTN GCCTGGGTGA CAGAGCAAGA NTCTATCTNA AAAATGTTTT 60
TAAAAAATAC TTCCTAGGGA AACACACATT TNGCCCTATT TGGAACITTG AAAAGTGAGC 120
CCTCCTCTGC CCATGGGCCG TGCTGCTCAG CCTGCCATAC TCGCTTGCTT TGCTGTTTGG 180
15 NATTTGCCTC CAGAATAAAG GTCCTTTTTG TTGTTGAAA 219

SEQ ID NO:2695
SEQUENCE LENGTH:224
SEQUENCE TYPE:nucleic acid
20 TOPOLOGY:linear
CLONE:HUMGS03138
SEQUENCE DESCRIPTION:
GATCCTAATC CCTTCCTCTC CCATTCACCC TGTGTAACAG NACCCCAAGG ACCTGCCTCC 60
25 CCGGAAGTGC CTTAACCTAG AGGGTCGGGG AGGAGGTTGT GTCAC TGACT CAGGCTGCTC 120
CTTCTCTAGT TTCCCTCTC ATCTGACCTT AGTTTGCTGC CATNAGTCTA GTGGTTTCGT 180
GGTTTCGTCT ATTTATTTAA AAATATTGA GANCAAAAAA CAAA 224

30 SEQ ID NO:2696
SEQUENCE LENGTH:216
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03139
35 SEQUENCE DESCRIPTION:
GATCAAAGTC TTAAGTGTGT TTGCAGCTCA AAAATAAAGA TGTATTAAGG AGGGGAAAAC 60
CTGGTCTAAG TGCAAGGCAC ACTTACAGCG AGTTTACTT TCGGTTGTAT TTTCTTTGTA 120
TATNATAAAC ATTTATTTAA CTTGTTGCCG TTTGAAGTAA AAAATTTCCA AAATGTATGC 180
40 TCAACAATAA TCATTTAAAT GTTTTCAGCG TACAAA 216

SEQ ID NO:2697
SEQUENCE LENGTH:216
SEQUENCE TYPE:nucleic acid
45 TOPOLOGY:linear
CLONE:HUMGS03140
SEQUENCE DESCRIPTION:
GATCAAATTG TGTTAGTAT CACTATCTTC TCTCCTCGTT TCTCTCTTAC TCCTCATCCT 60
CCCAGAATCT ACCAGTTTAT GGTAGAAAGA TGGAACCTT ATTTGAATGT GTTTTTTTTT 120
50 TCCATGATGT CCAATTTTGT NGTGGGAAAG GATTGGATA AAANTTTNGT TTAAATTNG 180

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GTAGNTTTTN ATCTNTACAA NTTTAANTAA AATNAN

216

SEQ ID NO:2698

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03141

SEQUENCE DESCRIPTION:

GATCTCAAAA GTATTCCTCA GGGTAGTCTC CATTCTGTGC ATTTTNCCTC CTATTCATGA 60
 GACGGAAAAA TTATGACCAT GGTACAGAGT TGTATCAAGG AAATGAAGAA CTAGAACATT 120
 GAATTGAAAG GTTTTGAAG GGTTCACAAT TTCTTTTCAT TTNCTATTAA TGTCTTCTTT 180
 TAAATNCTCT TAAGAATAAA ACTTTTTTCT AATAAA 216

SEQ ID NO:2699

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03142

SEQUENCE DESCRIPTION:

GATCAGCAAA CAGGAATACG ATGAAGCCGG GCCTTCATT GTCCACCGCA AATNCTTCTA 60
 AAACACTTTC CTGCTCCTCT CTGTCTCTAG CACACAACGT TGAATGTCCT GTGGAATTAT 120
 GCCTTCAGTT CTTTTCCAAA TCATTCTTAG CCAAAGCTCT GACTCGTTAC CTATGTGTTT 180
 TTTAATAAAT CTGAAATAGG CTACTGGTAA A 211

SEQ ID NO:2700

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03145

SEQUENCE DESCRIPTION:

GATCAGCAAC ANTAGCTTGC GCTCTACTCT GTAGTTATGT GGATTGCCGA GCAATNACCC 60
 TTTTCAATNT CTTATTTCTG TGTACTGAG GACCCTAATC ACTTAGGGAT GTAATTTTAT 120
 AGTATAAACT TTCTGNACAG TTTTCTNAT AGTCTAATAA GTAAAAAGTG TCCNNCAAAT 180
 TATGATAATT GCCTATGGTA CATGGATAAN TTAANGCACT GCACACGGTG TAAANN 236

SEQ ID NO:2701

SEQUENCE LENGTH:206

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03146

SEQUENCE DESCRIPTION:

GATCCATTTC TNACACACAC TGCCAGAGAT ACTCTAGGCA TGTAAGCAC AAACATACAT 60
 ATAAAACTG CGGGCTTCAA AAAATATAAG TAGGATGTCA TCTATACTGT CATACTTTT 120
 GTTTTTTATC ACTTACTTAA TGTATATCT NGGATATTGT ATTACCCTGG GTATTAAAAAN 180
 GAACTCCTTT CACATTTTAA AATAAA 206

SEQ ID NO:2702

SEQUENCE LENGTH:206

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03147

SEQUENCE DESCRIPTION:

GATCTAAAC TGGGGTTGG GGGAGGGTTT CANCECTCTCC CCACTCCNCT TGCCCCACAC 60
 CCTTTACTCC CCAGCCCAGA GAGACGCTGC TTTTACCAGG AAAGACTATT GAAAGATGTT 120
 TTATATTATT TTNCTCTGAC CTTTCCATCC TTGAAAAAAT GGGGAAAAAA GAAGAAAAAA 180
 GACAAAATCG ACCATAAAAG ACCAAA 206

SEQ ID NO:2703

SEQUENCE LENGTH:205

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03148

SEQUENCE DESCRIPTION:

GATCTTGTTA ATGCATTTT GATGGGAAGA AAAGGTACAT GTTTACAAAG AGGTTTTATG 60
 AAAAGAATAA AAATTGACTT CTTGCTTGTA CATATAGGNG CAATACTATT ATATTATGTA 120
 GTCCGTAAAC ACTACTTAAA AGTTTAGGGT TTTCTCTGG TTGTAGAGTG GCCCAGAATT 180
 GCATTCTGAA TGAATAAAGG TAAA 205

SEQ ID NO:2704

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03149

SEQUENCE DESCRIPTION:

GATCCTGAGG CTTTGATGCT ATTTNTTAA TCCAGCTGGT CTGTGGAGAA GCCTGGGACA 60
 GAAAGAAGCA GCCAGACTCC AGAATCCCCC ATTTAATAG CTATNNMATG CTATGTCCCC 120
 GTCTTATCC TGGCAACTTA CCTCTCAGCT CGTGCACTGT GACATTACAG CAAGAAGTAC 180
 TAATATAAAT GACACAAANG AAA 203

SEQ ID NO:2705

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03150

SEQUENCE DESCRIPTION:

GATCTGAAAA AAATACGGTT GAAAGTGGTG CAGGTAATTA CAATGTGTAG GCAAACCAGA 60
 AAACCATGGC TTTAACCAGC AGCTTTTGTN AGAAATNATT TCTCCAATGA NTGTAGAAAC 120
 GTTTCNGCT GAATTGTGAC CTTNCCATTT NACCTGCTTT TCCTGCAAAG TATATTTNNC 180
 AGACCCAGGC AGTGCTGCTC GCN 203

SEQ ID NO:2706

SEQUENCE LENGTH:198

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03151

SEQUENCE DESCRIPTION:

GATCCAATGC TAAACTCCAA TGGTTCAGTG ACTGTGGTTG CTCTTCTTCA AGGCAGCTGA 60
TACCTGTGCA TACTGCAGGC ATCTAAATTA GAAGACCTGC GAGTAAAACT GAAGAAAGAA 120
GGATATTCTA ATATTNTNA TATNGTTGTT AATCATCAAG GNATCTNTTC TCGATTAAAA 180
TNCACACATC TTANGAAA 198

SEQ ID NO:2707

SEQUENCE LENGTH:201

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03152

SEQUENCE DESCRIPTION:

GATCCATAAT TCCTATTCAA TGAACATCAT TGTGGTGGC TGAATACATT TTGGAAGAGA 60
GTTTTTCATC TTAGAGATTG GTGAACAAGT GTGAGGGTGT GAGAACTCA CAGAATACAA 120
ATTTGCCGTG ATGTTTTGTG GGTTTTTTTT TTCCCCTTCA NGATGTTTNC TATTNCTAAN 180
TTAANGTAAT TNCAAGGTAA A 201

SEQ ID NO:2708

SEQUENCE LENGTH:196

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03153

SEQUENCE DESCRIPTION:

GATCTATTAG TTTAGTGTTT ATNAAAGAAT CAAATGTATA GAATTACCAA GCATTCGTGG 60
GGAATNCTGT GTAGCAAATG TAAACTNAC CTGCTCGGAA GAAACGTAGG ANCGCTTCAA 120
ACCCACTGTA ATGTTTGGTT TGANNTTATT TCCATTGCTT TNAGAGTGAN CTGCCTAAGN 180
GTAGGCCTTA TAATAN 196

SEQ ID NO:2709

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03154

SEQUENCE DESCRIPTION:

GATCTACAAG NATTTTCTTT TAGTAGTTAT ACAAAGANT ATTACATTTA TTGGTCTGTA 60
CAGTGTAATA AACCAGCAAT AGGGACAACA ACAAAGAGAA TCTAAGAAAG ANGACTATGC 120
CTAANTATAG GGAAAGTTTA GAGAATCATT TTTAGACAGG ACACATTTTG CAGTAGTGAA 180
TGTGGTAGGT TTN 193

SEQ ID NO:2710

EP 0 679 716 A1

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03155

SEQUENCE DESCRIPTION:

GATCAGTGTT GCAACATANT GNAAAAGATG GCTACTGTGC CTTGTGTTAC TTAATCATAC 60
AGTAAGNTGA CCTGGAAATG AATGAAACTA TTACTCCTAA GANTTACATT GTATAGCCCC 120
ACAGATTAAAN TTTAATTAAT TANTTCAAAA CATGTTANCC GCNACTTTCA TGTACTATGG 180
AAAAGTACAN GTN 193

SEQ ID NO:2711

SEQUENCE LENGTH:192

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03156

SEQUENCE DESCRIPTION:

GATCTCGAAC CCTGTCTAGA AGGAATGTAT TTGTTGCTAA ATTCGTAGC ACTGTTTACA 60
GTTTTCTCC ATGTTATTTA TGAATTTNAT ATTCCGTGAA TGTATATNGT CTTGTAATGT 120
TGCATAATGT TCACITTTTA TAGTGTGTC TTTATNCTAA ACAGTAANGT GGTITTTATTN 180
CTATCACACA AA 192

SEQ ID NO:2712

SEQUENCE LENGTH:386

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03157

SEQUENCE DESCRIPTION:

GATCCAGAAT NGAGACTGGA CCTTCCAGAC CCTGGTAATG CTGGAAACAG TTCCTCGGAG 60
TGGAGAGGTT TACACCTGCC AAGTGGAGCA TCCAAGCATG ATGAGCCCTC TNACGGTGCA 120
ATGGAGTGCA CGGTCTGAAT CTGCACAGAG CAAGATGCTG AGTGGAGTCG GGGGCTTTGT 180
GCTGGGCCTG CTCTTNCCTG GNACAGGGCT GTTCATCTAC TTCAGGANTC AGAAAGGNCA 240
CTCTGGNCTT CAGCCANCAG GACTCTTTGN GCTGAAGTGC AGGTGNCCAC GATTCAAGGG 300
ANGAACCTTC TTGNCCCANG NTTTTCAAGA TGGAAAAGCT TTCCCAACT TTGGNTTCTT 360
NTTNTTCCC ACCAAAGAAAN CTTNAN 386

SEQ ID NO:2713

SEQUENCE LENGTH:189

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03159

SEQUENCE DESCRIPTION:

GATCTTCCGG AAAAATAAG CCCCTCCTT ACCCCCGCAC ACCTGCATCC CTGCCGGAGT 60
CNTGNTGAGG CACGAACCTT GCCTCCCTAG GCCGGACCTT GTGGACGACA GCCCCACCCA 120
GTCTGTGCTC TCAGCCGCTG GCCGAAGGCC CAGCCTGCTC AGAATAAAGC ATGTCTTGCT 180
GCCGGCAAA 189

EP 0 679 716 A1

5 SEQ ID NO:2714
SEQUENCE LENGTH:189
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03160
SEQUENCE DESCRIPTION:
GATCCCATAG TTTTACATTT TNCCTGTITA TTTTGATTTT TTNCACTGCT TTATTTCTTA 60
AAGTNCTAGC ACATCTGTNA CTCCTCCACT TCCACATTTT TNCAGTCTT ACACCTACGT 120
10 GCAATCTTAT TCCTNGTCTG CACACACATG TGGAAAGCTA GAAATAAATG TTAAAACTNA 180
CTTTTAAA 189

15 SEQ ID NO:2715
SEQUENCE LENGTH:187
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03162
SEQUENCE DESCRIPTION:
20 GATCAAACTCT CTCCTGGCTG TAGTAACCCA GTGGAATGAA TTTGGNCATG CCCCAATGCT 60
TCTATATGCT AAGTGAAATC TGTGTCTGTA ATTTGTTGGG GGGTGGATAG GGTGGGGTCT 120
CCATCTACTT TTTGTCACCA TCATCTGAAA TGGGGAAATA TGTAAATAAA TATATCAGCA 180
AAGCAAA 187

25 SEQ ID NO:2716
SEQUENCE LENGTH:187
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
30 CLONE:HUMGS03163
SEQUENCE DESCRIPTION:
GATCCAAGGG CACAAGGAGA TGAGCAAGGT GTGGAACGAC CTGAGGCCCA AGCTCAGCTG 60
CCTCTTTGCG GGACCACACA GCACCCTGAC CCCACCGTGC TCCNNGNCGG AGGACGGCCT 120
35 GTGTCCTCAN TAGCGCCTGA GGCTGNGGTG GTGCTCCCTG CGGNCGCACT AAAACCTCTT 180
TNCNAAA 187

40 SEQ ID NO:2717
SEQUENCE LENGTH:188
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03164
SEQUENCE DESCRIPTION:
45 GATCCTCCTG TTTACCTGT ACCTCCAATG TCTGGCACTT GTAGGTGCTC AAATATTCGT 60
TGAATGAATG AAAAATCCAT ATTGTAATTG ATGTCCTCTG GCCACATAGT TTTAAAATTA 120
GGTGATTGAT TATATGACCG AATAGAACTA TCAAATGTTT TCCTAATAAA GTCAATATTT 180
CAAACAAA 188

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5 SEQ ID NO:2718
 SEQUENCE LENGTH:183
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03166
 SEQUENCE DESCRIPTION:
 GATCTGCCCC CCTCAGCCTC CCAAAGTGCT GGGNTTACAG GCATGAGCCN TCGCGCCCGG 60
 CCGGATTTTT TTTTTTTT ATTACAGCTTA TACCAGGGCT GAAAACCTCA NTTTATGTTT 120
 10 ATGACAGTNG GGATTTTTT AAATGCCTAC ATTCTTTCTA ATAACTGTT GGAAGACNTT 180
 AAA 183

15 SEQ ID NO:2719
 SEQUENCE LENGTH:182
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03167
 SEQUENCE DESCRIPTION:
 GATCCAAGTG GCCCAGCAGA AACGGAATTN TNGTNAAAAT GACTGATTCT GGTGCATGTN 60
 AAAGGCTCTG GCGAATNAAT ACCTGTTTGG TCCAAACTTA CTGTATCATA ATGCTGTATA 120
 TGTNGAAAAC GTAATACCTG TNAATGTCCT AATGAATCAN GTTTTGCGA AAACACCGTA 180
 AA 182

25 SEQ ID NO:2720
 SEQUENCE LENGTH:181
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 30 CLONE:HUMGS03168
 SEQUENCE DESCRIPTION:
 GATCCTCCAT TGGAGTGGCC CAATCTTTCC TCTAGGGCAA TCCTGAAAGC CCAAGGCCCT 60
 TCNCAGTCTG GCCTTGGCTT CAGCTGGAGA AGGGTAACAT CAGTCATTGT CAAGGCACCN 120
 35 CCANCCNGA CAGACCGTGT CTCTGATAAA GGTTTGAAG TGATAAAGTT TAAAACTAA 180
 A 181

40 SEQ ID NO:2721
 SEQUENCE LENGTH:178
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03169
 SEQUENCE DESCRIPTION:
 GATCCTCACT CCACTGTCAT GTTGAAAGA GGTATTGGTG TTCTGGAGTG GGGGTCAACC 60
 45 CCTCCCAGT CTCTGTGCTA AGTCACTTG GGAGGATGGC AGTAGGAGCC AGGGCTGGCC 120
 ATGGGTCCCC TACGCTTNCC NNTAGGATAT ACCCTGGAGA ATGGCAAAAT GATTTAA 178

50 SEQ ID NO:2722
 SEQUENCE LENGTH:287

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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03170

SEQUENCE DESCRIPTION:

GATCCTAAGG CAAAGAGGTG TTTTTCCTTC TGGTTGATTC ATCCCAAAGC TTTCCCACCC 60
 AGGTTTTC TC TGAAAGCTTA GCCTTAAGAG AACACGCAGA GAGTTTCCT AGATATACTC 120
 CTGCCTCCAG GTGCTGGGAC ACACCTTTGC AAAATGCTGT GGGAAAGCAGG AGCTGGGGAG 180
 CTGTNTTAAG TCAAAGTAGA AACCTCCAG TNTNTGGTGT TGTGTAGAGA NTAGGNCATA 240
 GGGTAAAGNG GCCAAGCTGC CTGTAGTTAG TAGAGAAGAN TGGGGAN 287

SEQ ID NO:2723

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03171

SEQUENCE DESCRIPTION:

GATCACCATG ACTGCAACAT GGTATATATT CATGCTGCCC TAGAACTTT TGTAATTATT 60
 TGTGCAAAT TTGTGACTGT CCTTATTAAC TTTCTTNAT GTAAGTAATT TGTAAGATT 120
 TCTNAAAATT TTTGCTTTTG CTTATTTAAT TTTNAATAAA AGCTAAATTC CTAATAAA 178

SEQ ID NO:2724

SEQUENCE LENGTH:178

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03172

SEQUENCE DESCRIPTION:

GATCCTGGAG CCCCCGTGC GGGGGGCGAG GGNNGGGCGG TGNCCGACGA GTTGANCTTC 60
 TNAACATGAG TGCAACTTC AGGACTTGCT TCCAAGCCCT TCCCTCTGTT GGAAATTGGG 120
 TGTGCCATNN CTCCAAGGN AGGCCATGT GACTAATAAA AAAGTGTGAA CCCTGAAA 178

SEQ ID NO:2725

SEQUENCE LENGTH:337

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03173

SEQUENCE DESCRIPTION:

GATCCTTTTG AATTTGCAC AGCCCTAGAT ACAATCCCTT TTGATAAAAG GGTCTTTGCT 60
 TCTNATTACA GGAGCACTGT GGAACGTCTG TAAATATGTT TTTATAATTC CATGTATAGT 120
 TGGTGACAC TCAAACCTG TCCCCGGCAG CCAGTGCTCT CTGTATAGGG CCATAATGGA 180
 ATTCTGAAGA AATCTGGGG AGGGAAGGGG AGTTNGAACA AATGTCTGTT CCCTGGGAGG 240
 CCAGTCCAGT GCTCAGACCT TTAGACTCAT TGTAAGTTGC CACTGTCAAC ATGGGACCAA 300
 AGGTGTGTGA CTAGTCAATG AAAGTGCGGN CANATTN 337

SEQ ID NO:2726

SEQUENCE LENGTH:180

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03175

SEQUENCE DESCRIPTION:

GATCCAAAAC ACTCAATCCT CGTAAAAGGG TACAGGTCCT ATTGTATGTT AACACACGTG 60
ATGATGTGAG CCATGTGAGA TGANCAATCA CCAGTTGTTA TGTTCTGAATC TCCTTTGTGT 120
TGGGCCCGCTT TAATGTCAGG GTTTCATAA ATAAATGAAT TTTCATATAC TGAAGTGAAG 180

SEQ ID NO:2727

SEQUENCE LENGTH:175

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03176

SEQUENCE DESCRIPTION:

GATCTGAGCC AGGATGGGAG TGAATCCCAG GCGGAGGCCA GAGCTGGCAG CCAGCTCTGC 60
CTTTCCACTG CCGGGAGTGC TGGGGGCCCA GCCTGGCCCC CNGAAGAGAC AGCCAAGTGT 120
CGTCCACATA CTCCTCCCAG AGTGAGCTCT AACCAGGCTC ATTTGCTCTN TCCAN 175

SEQ ID NO:2728

SEQUENCE LENGTH:175

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03177

SEQUENCE DESCRIPTION:

GATCCTGTTN CCNACCTCCT TCTCCTCCCC TGTACTCCCC AGTGCCTTCC ATTGCTCTGG 60
TGGAGCTGGG GTTCTCTCTC TCCCAGTCC CACAACACTG CCAAAAATCT GTGTATGTNC 120
CATTGGGTGG GGCAGCCCCA AGCCTCCTGG GGAGGCAGGG CAAAAACAGG TGCCN 175

SEQ ID NO:2729

SEQUENCE LENGTH:174

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03178

SEQUENCE DESCRIPTION:

GATCAGAGGA AAGATGAGAA AGAGAACAAG CATACCTATC TNACTCCTTC CAGTGGTCTC 60
TGTTCCCTCC GTCTCCTGGA CCACGGCTAG AGTTCCAGT TTGGCCTTTT GGGGCATTCA 120
TCCCATCTAC TTTATTTTCA TCTGCTTGGG CAGTAATGTA AACAAATTAA AGGN 174

SEQ ID NO:2730

SEQUENCE LENGTH:271

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03179

SEQUENCE DESCRIPTION:

GATCGTCTGG GAGCCCAGTG TCAAGTCTGC TGGAATGCAG GAAGTAGAAC AGAATCGCCA 60

5 CAGGACTGTT CTGGGGCCAG GTTCCCTTAA CTCTGTAGCC TGGCAGTCTG ACCCAAAGTT 120
 GCCCTCACCC AAAGGTTCTG GCTCTTCCCT CCCTCACTTT TACTTTCCCT TCCCCCATAA 180
 GTTGGAGGAT AAAATGGGTA TCAATGNTAA TTTTCCAGG GNGNCCATGN NNACCAGCGG 240
 TTTCTNNCTN TCTCTGTAAT CTGCTATGNA N 271

10 SEQ ID NO:2731
 SEQUENCE LENGTH:178
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03180
 SEQUENCE DESCRIPTION:
 15 GATCTNCGGN CTGTCGTTAG CAGGCTTAAT NAAGAACACT TCTCAACAGT TTCCTTTTTN 60
 TTTTCTTTA TAATTCATA AAATAAGCA TCTATTAGTG TCTGATTTAG GAATGTAAAA 120
 TAATTCTNTA TTAATGTAAA TAAGATTATC TATTGCAAAA NGATATTTCA ANCCTAAA 178

20 SEQ ID NO:2732
 SEQUENCE LENGTH:172
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03181
 SEQUENCE DESCRIPTION:
 25 GATCTTACCA AAGAGGTCAA CACATGGGAC CTTTGTGTCA CATGAACCAT TTTTTTTCCT 60
 CTTCTATTAA GTGTATTNT GTTTAAGNTA CAGTTCTCTA AGAGAATTAC AATGTTTGTG 120
 CCATTCTTAA GGGCTTCTNT TCAACTCTAA TAACAGCATT ATTCACGTGA AA 172

30 SEQ ID NO:2733
 SEQUENCE LENGTH:170
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03182
 SEQUENCE DESCRIPTION:
 35 GATCAGGAAA CGGCAACAAG CCTCCCAGTA CTGACCTGAA AACTTGTGAC AAGAAGAACA 60
 CCAACAAGTG CTCCTGGGC TGAGGACCCT TTNTTGCCTC CCCACCCCGG AAGCTGNACC 120
 TGAGGGAGAC AACGGCAGAG GGAGTNAGCA GGGGAGAAAT AGCAGAGGGN 170

40 SEQ ID NO:2734
 SEQUENCE LENGTH:176
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03183
 SEQUENCE DESCRIPTION:
 45 GATCTGGATT TATGTATTG TNAGATACAT ACGAATTGTT AAAATGGAAT GCAAGTTTTT 60
 CAAAAGCCCA GGTCTAAATG TAATGGTTGG TTTATNGTNC TATAACCCCA GCCCATCATT 120
 TCCTGTGTAA ATCATAAACA ATAAACAGAA TATACTCGGT GGCCATTTCT AATAAA 176

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5 SEQ ID NO:2735
 SEQUENCE LENGTH:163
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03185
 SEQUENCE DESCRIPTION:
 GATCCGCCCA CCTNGGCCTC CCAAAGTGCT GGGATTGCAG GCGTGAGCAN CCGCACCCGG 60
 10 CCTCCTGAAT TAACATTTTC TAAAGATGCC TCCGGCGTGC TATCCTGAAA GCTGCCAGAG 120
 GTGTCTTGGC TGCATTGGTG GTAATAAAAT TCATACTCAT AAA 163

15 SEQ ID NO:2736
 SEQUENCE LENGTH:162
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03186
 SEQUENCE DESCRIPTION:
 20 GATCTCAACT ATGTNCCACT AAAGGCACAG GAATGGAAAA CTGAGAAAAG ATTTATTGGC 60
 CTCACCAATT CCTTTGGTTT TGGTGGTACT AATGCAACAC TTTGTATTGC TGGNCTGTAG 120
 AACATATANT TNGTAATNAA ATACTGATT TNAATGTTA AA 162

25 SEQ ID NO:2737
 SEQUENCE LENGTH:160
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03187
 SEQUENCE DESCRIPTION:
 30 GATCCTGCCA CCCTGTAGCG CCAGTNTAAT CCCCAGGAG AACATCTTTG AACTCTGCA 60
 GACTGCTAGT GTTCTGTCTA AAAACCAGAC AAGGAAATAC CCTTCTTTTA TGAGCAGAAG 120
 GAAACAAAAA AAAAAANGAG GCCCNTTTNC CTGGANGAAA 160

35 SEQ ID NO:2738
 SEQUENCE LENGTH:159
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03188
 40 SEQUENCE DESCRIPTION:
 GATCTGCCTT ATTGCATATN CCATGCATCA GATAATGGAT GCATCAGATA ATGGNGTTAG 60
 ACAAAGCTTC ATTGTGAACA ACCTAATGCA TTTNNGAGAA ACANTCTCAT CACATTTTTC 120
 CTAGCCTTNC CTACATTAA NCTTGCTGTT GCCCAAATN 159

45 SEQ ID NO:2739
 SEQUENCE LENGTH:157
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 50 CLONE:HUMGS03189

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EP 0 679 716 A1

SEQUENCE DESCRIPTION:

GATCAGANGT TTCACTTGTT TCTCAGTTAT TGGATATGTA TCTTTGTGTA CATATCTTTG 60
 CAAAANTGGA TAAGTACAAA NCTTGATGTA AATNGTACCA ATGANTATGT AAACATACAG 120
 TGACANCATT AAACCTAGAA AAGTTTAAAA ACTTAAA 157

SEQ ID NO:2740

SEQUENCE LENGTH:153

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03190

SEQUENCE DESCRIPTION:

GATCCACTGG AATTAGCCAA TACACTATAT AACAATACTA TTAAAGTATT TTTTCCTGGA 60
 ATATAATTGG TATATGTCTT CCACCTTTCCA TCATGTATGT AAAATTTCAT AGTAAAACTT 120
 CCTGATAGTT TCAATAAAGA AATNATCTGC AAA 153

SEQ ID NO:2741

SEQUENCE LENGTH:151

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03192

SEQUENCE DESCRIPTION:

GATCTTNAAT GCTTTGGAAA TGCCTGTAAC AGTACTGCAA TAATCACAGC TCTGGGAAAA 60
 ACAACGAAAC TTTCCCTTGT GGAGAGGAGG GATTCCCTG CTCTATATAA GCAACATATT 120
 TTNAGACATT AAAATATGGT ATNCNNNNCC N 151

SEQ ID NO:2742

SEQUENCE LENGTH:150

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03193

SEQUENCE DESCRIPTION:

GATCTTNCTN ATCCAAGCAA TAACGGGACG AGGGAGCCAG GGCCAAGGAC ACTCAGGGAC 60
 ACTGTTGGGG CAGCGGCCCC ACATGGTAAT GTTTNTTTA GAGAGAAGAA AAAACAACCTG 120
 GCTGTAAACG TAAATNATAT TTNTTGAAA 150

SEQ ID NO:2743

SEQUENCE LENGTH:150

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03194

SEQUENCE DESCRIPTION:

GATCGTNTTT TTNCTTGTTA AATAATTAAA ANTCATCTTA AAATTCATAC TTGACTTTA 60
 ATTTAGACAC AAGGAGATGT AATCNCTGTG TAACATCAGA GAAAGCTATA TGGATTATNG 120
 TCAGANGTAA ATGTTTCTAA CATTGACAAA 150

EP 0 679 716 A1

SEQ ID NO:2744
 SEQUENCE LENGTH:149
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03195
 SEQUENCE DESCRIPTION:
 GATCGAGTTG GCCGAGGATG GATGATTNTG NGCAGCAGAA GCCGTTGCAG CCCCACGTTG 60
 TGCTCTAGGC AGGGACCTTT GGGCCCTTTG GGGAGGGAGA GACAGACGGG CGGTTTGACT 120
 TGGACACAAA GAAAGCCTTG GTTCTAAA 149

SEQ ID NO:2745
 SEQUENCE LENGTH:145
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03196
 SEQUENCE DESCRIPTION:
 GATCCCAGGT CTGGGGATGG GGGACACCTT NGGCCACAGG ATACTGGTTG CTCAGGGGT 60
 ACCCATGCCC NCTGCCCTNG CCTGGAATCA GTGTTACTGC ATCTGATTAA ATGTCTCCAG 120
 AAATAAGAA TAATTCTGCC AGAAA 145

SEQ ID NO:2746
 SEQUENCE LENGTH:143
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03197
 SEQUENCE DESCRIPTION:
 GATCACTCNT AGAGTNGCCA TTCTGCANCT TCCTAAAAAT ATTTAAAAA TACATTTATT 60
 TTACTAAATA CTGACTACAT TTNTNTGTTA ATATTGAGCT AAATGTAAAA AAATGGCCAG 120
 ATTAAAGAT ATCAATTTGT AAA 143

SEQ ID NO:2747
 SEQUENCE LENGTH:142
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03198
 SEQUENCE DESCRIPTION:
 GATCCATAGT GTGCATGGG AGACACATTT TGCCTCTATG TCTCTAAAA TTTTAATTAA 60
 AAATACTCTT TCCAGTAATC CTAATTTGCA CGAAGATATA ATGTCCACAT TACGTGCCTT 120
 GCCTTGAAAT CTAATAAACA AA 142

SEQ ID NO:2748
 SEQUENCE LENGTH:142
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03200

SEQUENCE DESCRIPTION:

5 GATCTCACAG GACTGAGAAC TCGTTCACCT CCAAGCATT CATGAAAAAG CTGCTTCTTA 60
 TTAATCATAC AAACCTCTCAC CATGATGTGA AGAGTTTCAC AAATCTTTCA AAATAAAAAG 120
 TAATGACTTA GAAACTGCCA AA 142

SEQ ID NO:2749

SEQUENCE LENGTH:141

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03201

SEQUENCE DESCRIPTION:

15 GATCTTTTCA TTTCTTACTA GCTTTTAAGA AATNAAATAC TTGCCTGAGA TAGAAATACT 60
 TTATTTTTGT AACTTTAAGG TCTAAATNAC TAACTTCAA AGTAAGATTT TNTCAGAATA 120
 AATTGAGACC ATTAATCTAA A 141

SEQ ID NO:2750

20 SEQUENCE LENGTH:140

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03202

SEQUENCE DESCRIPTION:

25 GATCAGAAAA AGAAAGAAGC CAAAGAGAAA GGTACCTGGG TTCAACTANA ACGCCACCTT 60
 GAGCTGCTGG AACCTATTCC CTATGAATTC ATGGCATAAT AGGTGTTAAA AAAAAAANA 120
 AAGGACCTCT GGGTACAAA 140

30 SEQ ID NO:2751

SEQUENCE LENGTH:135

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03204

SEQUENCE DESCRIPTION:

35 GATCCTATTT TCNTACAACC TTTCAGTGAC ATCGTTCAGG NTTCTTTCTT GGCCATTTAA 60
 AAAACAAAT TTTTTTTNC TCACTTGTA GTCACCGCCA GTNCCTAAGT NAGGCTAACG 120
 GNGACTTTGA CAGGN 135

40 SEQ ID NO:2752

SEQUENCE LENGTH:134

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03205

SEQUENCE DESCRIPTION:

45 GATCAGTAAT AGATNTAGAT ATACTATTTT NATATTGTAA GCAGTTACNT ACTCAGGATT 60
 AGNATTCGAA TTCATTTGAT TTAATATGTA ATAGGTAATA TTAANAANTAA AGATTTTATG 120
 CTTTGAAACT CAAA 134

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EP 0 679 716 A1

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SEQ ID NO:2753
SEQUENCE LENGTH:133
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03206
SEQUENCE DESCRIPTION:
GATCAGACGT CGCTGAGGGG CTGTNCACCA CCATCCTCGT TCTCCAGGGT CAAGGAAGTG 60
TTTAAACATG TCGTGTTC GACTTGACCT TGTGGTATTT TNCTNGGCCT AGTTGTGTGC 120
CATGGATATT AAA 133

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SEQ ID NO:2754
SEQUENCE LENGTH:141
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03207
SEQUENCE DESCRIPTION:
GATCACTGTA GTTAGTTCT GTTGACCTGT GCACCTACCC CTTGGAAATG TCTGCTGGTA 60
TTTCTAATTC CACAGGTCAT NAGATGCCTG CTTGATAATA TATAACAAT AAAACAAC 120
TTCACCTCTT CCTATTGTAA A 141

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SEQ ID NO:2755
SEQUENCE LENGTH:132
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03208
SEQUENCE DESCRIPTION:
GATCGTTATA TTNACATAA TATAACAAA ATNACTAATG CATCTATATN CTTGGTTTCC 60
TTAAACTACA ATNAACCACA GAATGGGTGA AAATGCAGGC ATGCACGCTT GCGTAATCA 120
TGGATGNNGC TN 132

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SEQ ID NO:2756
SEQUENCE LENGTH:131
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03212
SEQUENCE DESCRIPTION:
GATCCGNCCG CCTCAGCCTC CCTATATGTT TAAAAATATA ANTTATTCT TATAAANTA 60
AATTNAANCT AGATTGAGGT AGTAATTACA ACAGTCCAGC ACATTATGGA TAATTAATAT 120
TNATATTTAT N 131

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SEQ ID NO:2757
SEQUENCE LENGTH:136
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03213

SEQUENCE DESCRIPTION:

GATCTGATAT TTTAAGANTT TGGAGACCAT TTCCTGTGCC AGANTCACTG CTCTATTCCA 60
 TACCGTGCCA TGGAGGCTGT TTTAGAAGTG GTTGGATAAC ATGTTAAATA AAATATTAAG 120
 TGTAAAAAAA AATAAA 136

SEQ ID NO:2758

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03214

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCCTC CCAAAGTCCT GGGATTACAG GTGGGAACCA CAGCACCTNA 60
 CCCAGAATAT AAAGACACTT TTNTAATGTG CAATGAAAAA TATGTAAATA AANTATTTTT 120
 ATCTNTAAA 129

SEQ ID NO:2759

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03215

SEQUENCE DESCRIPTION:

GATCCACCGT ACCAGGNAGC AGAAATATTT CTACAAAGGG GGCCTAGTTT GGAATGAGAA 60
 CANNTCTGAC GGCCGGTATG TGAAGGAGAA CTGCAACCT CTGAAGAGTT ACATGCTCCA 120
 AGACTCCCN 129

SEQ ID NO:2760

SEQUENCE LENGTH:408

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03216

SEQUENCE DESCRIPTION:

GATCATGTTG GGATTAACCT GCCTTTTTCC CCAAAAANNA AACTCTCAGG CAAGCATTTT 60
 TTAAAGCTA TTAAGGGNGT ATATACTTGA GTACTTATTG AAATGGACAG TAATAAGCAA 120
 ATGTTCTTAT AATGCTACCT GATTTCTATG AAATGTGTTT GACAAGCCAA AATTCNNGGG 180
 TGTAGANATC TGGAAAGTTC ATTCCTGGG ATTCACCTCT CCAGGGATT TTTAAAGTTA 240
 ATTTGGGAAA TTANCAGCAG TTCACCTTAT TGTGAGTCTT TGCNACATT GACTGAATTT 300
 AGCTGTCATT TGTNCATTTA AAGCAGCTGT TTTGGGGNCT GTGAGAGTCC ATGTATTATA 360
 TCCAAGCCCA CCAGGGCTTN CCCTAAGGAN TTGCCATNGT AATACCCN 408

SEQ ID NO:2761

SEQUENCE LENGTH:128

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03217

SEQUENCE DESCRIPTION:

EP 0 679 716 A1

GATCTAGGAA AGAAGGCAAC TGAAAAACCT GAAAGAAAAA AAATNAAAGA TTAAAAGTAT 60
ACGATATTCT ATTTTGATT AGCAATTACT TGTTTNCNAG TGTNCTGTNA ATTTTGGTN 120
ACTTTAAN 128

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SEQ ID NO:2762
SEQUENCE LENGTH:258
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

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CLONE:HUMGS03218

SEQUENCE DESCRIPTION:

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GATCGGCAGG CTGAGGACCA GGTCTGAGG AAGCTGGTGG ATTTGGTCAA CCAGAGAGAT 60
GCCCTCATCC GCTTCCAGGA GGAGCGCAGG CTCAGCGAGC TGGCCTTGGG GACAGGGGCC 120
CAGGGCTAGA CGAGGGTGGG CCGTCTGCTT TCGTTCCAC AAAGAAAGCA CCTNACCCCA 180
GCACAGTGCC ACCNTGTTC ATCTGGGCTG NCTGGCAGAG AGCCTTGCTG TTTACAATTA 240
AAATGTTTCT GCCACAAA 258

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SEQ ID NO:2763
SEQUENCE LENGTH:128
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03219

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SEQUENCE DESCRIPTION:

GATCCTGTGT GGTCTAGCTA AATACTGTTA GGGGAGTGTG CCCCATCTCA TCATTTCGAA 60
GATAGCAGAG TCATAGTTGG GCACCCAGTG ATTGGGTTC AAAATAAGC TGGTCTGCCT 120
CTTCTAAA 128

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SEQ ID NO:2764
SEQUENCE LENGTH:126
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03220

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SEQUENCE DESCRIPTION:

GATCTNCCGC TCCCTCCCTG AAGGGCATGG GGCCAGGGNA GTCTGGACAG CCGCCCCCAG 60
CCTGCTGACC CCCAGCTTTC TACAGACACC ANATTTGTAA ATAAAGTTGG GGAATGGACA 120
GCCAAA 126

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SEQ ID NO:2765
SEQUENCE LENGTH:126
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03221

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SEQUENCE DESCRIPTION:

GATCTTTTGA GGCCTTCATT TTATGTTTTT CCTTAAGTGT TATATTATNA TTGTAACATA 60
GATTATACTA CTAATAATTN NTGGATGTNT CAAAAGGTCA AGAAGTAAAA NATGTTAGAA 120
AGCAAAA 126

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EP 0 679 716 A1

5 SEQ ID NO:2766
 SEQUENCE LENGTH:125
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03222
 SEQUENCE DESCRIPTION:
 GATCTCTGCA CAGTTTCTTG TTTAGTCTTA TGCCTTTTAG TTGAAAAACA AATTGTATTT 60
 TTTTCCTNCT AAGTTTCATG GCCCTAGAGA AGAAGCCAAT NTNNTAAAG ATGTTATCCC 120
 10 NGAAA 125

15 SEQ ID NO:2767
 SEQUENCE LENGTH:124
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03223
 SEQUENCE DESCRIPTION:
 GATCCTGGTT TCAATGACGG TTGAAATAG AAATTNCCAG AGAAGAGAGT ATTGGGTAGA 60
 20 TATTTTCTCT GAATACAAAG TGATGTGTTT AAATACTGCA ATTAAAGTGA TACTGAAACA 120
 CAAA 124

25 SEQ ID NO:2768
 SEQUENCE LENGTH:131
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03224
 SEQUENCE DESCRIPTION:
 30 GATCACTTAG CAACATGCTT GGNAATTTGG NATCTNTAAA GGTAGGAGAG TGGTGAACAG 60
 ATAATCTATG CATATATNAC TAGTGCCAAG ACATAAAGCG GGGGAAAATA TATTTTANCC 120
 CAAACATTAA A 131

35 SEQ ID NO:2769
 SEQUENCE LENGTH:123
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03225
 40 SEQUENCE DESCRIPTION:
 GATCAATTAC CTAAGTGTTC CTTGGTCTAT TTATGTATAA GAATGCTTTT TAAAGCACAT 60
 GTCTCATTTT AAATNACGCA CAAACTGAAG ATGTTAATAA AATTAAAGAG TAATACAATG 120
 AAA 123

45 SEQ ID NO:2770
 SEQUENCE LENGTH:388
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
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EP 0 679 716 A1

CLONE:HUMGS03227

SEQUENCE DESCRIPTION:

5 GATCCATTG TCTGGCAGGA GGTTTTGGAT GATAAAGCAA CGCTTGCGCC AAGGCACAAT 60
 AGTTGAAGNA TGGAAAGACA GCGCATATCC TGAGGAATC AGTAGAGTCA CAGCATCTGG 120
 CTTCCCTGTA ATCCTTTCTN CTCCTNGGTA CTTAGATTNG ATTAGCTATG GACAAGATTG 180
 GAGGAAATAC TATAAAGTGG AACCTCTTGA TTTGGCGGT ACTCAGAAAC AGAAACAACT 240
 TTTCATTGGT GGAGAAGCTT GTCTATGGGG AGANNNTGTG GATGCAACTA ACCTCACTCC 300
 10 AAGATTATG GCCTCGGGCA AGTGCTGTTG GTGAGAGACT CTGGAGGTTC CAAAGATGTC 360
 AGAGATATGN GATGACGCCT ATNACAGN 388

SEQ ID NO:2771

SEQUENCE LENGTH:219

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03229

SEQUENCE DESCRIPTION:

20 GATCGATGGA CCGTAAATAA GCTGCCATTA ACACATCTGG TTAGTGTGT AACATGACTA 60
 ATAAACCGA ACGCCTGTTC CCCTTACCCG TGTGGGGGAC ACGCAGATGA GTGAATTGGA 120
 ATGTCCAGCA GAGTTACCCT CCCAATTATA TGTTCAATTT GTATATTTTT TGGTCGGGGG 180
 AAAAATTGAC CTGCAGTAAA AAAACCTTTG ACCATTAAA 219

25 SEQ ID NO:2772

SEQUENCE LENGTH:120

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03230

30 SEQUENCE DESCRIPTION:

GATCAGCACA GGAAGAGCCT TCCTAAGCAT GTGGTCCCAG GGAAGGGTGA AAAGTAGGAG 60
 TTATGAACGT AATCCACCTA CTACAATGTT GAATTAAAGT TATAATCTCA TAACCTCAAA 120

35 SEQ ID NO:2773

SEQUENCE LENGTH:120

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03231

40 SEQUENCE DESCRIPTION:

GATCCGCCCG CCTCGGCCTC CCAAAGTGCT TGGATTACAG GCATGAGCCA CCGCACCCAG 60
 CAAGAGTTAT TTNNTTAACT TGAAATTTTC TACTAGCCCT GGTGAAGTTC TGTGCTTAAA 120

45 SEQ ID NO:2774

SEQUENCE LENGTH:119

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03233

50 SEQUENCE DESCRIPTION:

GATCCAAGGT GATACAGCTG GTAACGTATG GAGATGTTGG TAGTGAAATN CATGTACTTT 60
TAGTNCCTTTT TATGGAATCT AGAGGNAGAA TACATGTACA AGAATATCGA CTACCGTCN 119

5 SEQ ID NO:2775
SEQUENCE LENGTH:117
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
10 CLONE:HUMGS03234
SEQUENCE DESCRIPTION:
GATCCCAGCT GTGTGTCACC AGCAGCTTTC CCAGCTTCTC TGTGAGGGTC ACTGCTGCCC 60
ACTGCAGGGT CCCTGAGGTG AAGTAAACGC CGGCGCTGGG CTTGGCCAGN CGGCAAA 117

15 SEQ ID NO:2776
SEQUENCE LENGTH:115
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03235
20 SEQUENCE DESCRIPTION:
GATCATTCCC ATTTTCATAGG TTTTATTGT GGAATAGTCA ACTTAATATA GATTCACCTT 60
CAATTTGCAT GTATAANGTA ATACTCAATA AAATTTTTTC CATTNATTTT NCAAA 115

25 SEQ ID NO:2777
SEQUENCE LENGTH:217
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03236
30 SEQUENCE DESCRIPTION:
GATCCTGGGG TTGGTCTGCT TTGTGTATGG TACTTGAAAC CACGCTGTAA TTATTGTCCT 60
GTTGCCAAAC AAAAGCCAGT CATGTAATC TAGAAGCAGT GACTGGTGGG GCTTTCTGAC 120
AGTTCCATGC TGATGTATCA GGCCATCTGT GTCATGCTTA TGTATTATGG CAAGAAGAGG 180
35 AAAACTGGAT TAATAAATAC GTTTNNNNN NGTTAAA 217

SEQ ID NO:2778
SEQUENCE LENGTH:114
SEQUENCE TYPE:nucleic acid
40 TOPOLOGY:linear
CLONE:HUMGS03237
SEQUENCE DESCRIPTION:
GATCCTNAGC AACGAACACC TGCATTAGA AAAAGTGGAC AGCTTCTNCC AACCAACACC 60
45 TACCCATGGN ACTGTATGCA ATTAACCTCT GGAAACGCC CGTAAATNCN AGTN 114

SEQ ID NO:2779
SEQUENCE LENGTH:113
SEQUENCE TYPE:nucleic acid
50 TOPOLOGY:linear

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CLONE:HUMGS03239

SEQUENCE DESCRIPTION:

5 GATCCAAAAT TACCTTAAAT GGAGTTAAGT AGGCTTTGCA CTAAATGGAT ATAAAAGAGG 60
 CTGCTCTGGNC TNCTATGAAA TNATGATTAA AATCCTTTGT GTTGTCTTTT AAA 113

SEQ ID NO:2780

SEQUENCE LENGTH:359

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03240

SEQUENCE DESCRIPTION:

15 GATCCTTAAA GAAGGTGTGG GGTCTTTCCC AACCTGAGGA TTTCTGAAAG GTTCACAGGT 60
 TCAATATTTA ATGCTTCAGA AGCATGTGAG GTTCCCAACA CTGTCAGCAA AAACCTTAGG 120
 AGAAAACCTA AAANTATATG ATTACATGCG CAATACACAG CTACAGACAC ACATTCTGTT 180
 GACAAGGGAA AACCTTCAAA GCATGTTTNT TTCCCTCACC ACAGCAGAGC ATGCAGTACT 240
 AANGCGATAT ATTTNTGATT CCCCATGTAA TTCTTCGGNG GNNGGNCAGT GCAGTNCCT 300
 20 TTCGGAAGCT TAAGATGGCC NTGNGGCCCTG NCCNNNNGGN CATATGCCCC TGAAGGGCN 359

SEQ ID NO:2781

SEQUENCE LENGTH:191

25 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03241

SEQUENCE DESCRIPTION:

30 GATCTAGGGC AGGCTGTCTT CCAGTCCATG TGTCTCGGT CGCGCTAGAC AGCGCTCTGG 60
 CTACCACCGT GAGGCTACTT GAACTGTGAG GGGCATCTGC CTAAACCAGA ATCTTTTGTC 120
 AGAAACCTTA ACCCAACAAA ACAATCTTG AGTAGTCAT GCCCGGCTCT TAGGAATTTT 180
 GTCTGTTTAA A 191

SEQ ID NO:2782

35 SEQUENCE LENGTH:111

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03242

SEQUENCE DESCRIPTION:

40 GATCACTCAA CAGCACTGTN ATGTATTATT TNNAATGAGG TGCCTTTTTT AACTGACCAA 60
 ATGCTGCCTT GTTTGGCCCC TAANTCAATA AAATATGTTA AAATTTGTAA A 111

SEQ ID NO:2783

45 SEQUENCE LENGTH:109

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03243

SEQUENCE DESCRIPTION:

50 GATCTAAGAA ATAGAATTAG GGAGAGTTTA CACTTACTTA CCTATATAAA AGCAGATTTT 60

55

CNTGGAAGAA ACCCTTTTTT TTTTTTTTTT TAAAAAGNA NCANCCAGN

109

SEQ ID NO:2784

SEQUENCE LENGTH:340

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03244

SEQUENCE DESCRIPTION:

GATCCAGAAG CTGGTGGACG TCACCACGGC ACAGGTGTAA CNTCCATGTN CCGTGTGAGC 60
 AGAGTCCCTA CCAACGGGCA GGTCTGCATC CGGGGAGAAT GCAGCTGCTT CTGGCGACAA 120
 TCCTGCTAGT AAACACTGGT CTTCCGGTGAG CAACGAACAC TCGCCTGGGN TGGGAAACTG 180
 CATGCCCCACT TTNTGGGAGG GGTTAGTGCA GGTGCCGTGG ACAAGGACA ACATTTCTNT 240
 GGGGCTTTT AACTTTTATT CCTAAGACTC TAAAGGCGTT GATTCAACC CTCCTTCACT 300
 CTGGCTTCTT CAGGNAACCC ACGTGGTCTC CTGTNAGNTN 340

SEQ ID NO:2785

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03245

SEQUENCE DESCRIPTION:

GATCTTTAAG ACAACAAGTT AGGTTCTTAC TGGAGTTACC TGCCAGANTG GCCTCTTAAT 60
 TAACTCAGGT AATGAAGAGC TAACTGTGTT ATAATCATCT NCCNNNTN 108

SEQ ID NO:2786

SEQUENCE LENGTH:108

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03247

SEQUENCE DESCRIPTION:

GATCTGCTAA AAATGGCAAT TGTAAGATNA TGTGTATGT AATGTACATA TGGAGAAAGA 60
 ATGTATTTTN TCCATTTCCT TAATAAAATG TTATATATGG NTGCTAAA 108

SEQ ID NO:2787

SEQUENCE LENGTH:107

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03248

SEQUENCE DESCRIPTION:

GATCTCTGAG GCTNCGGTCA CCACCCACAA GTTGTGGCCT TGGATACCAC ACTNCAGTTG 60
 GGTGGTGATG GGGTNGTGCC TTCTAACTTT TNCNTATCT TTACCGN 107

SEQ ID NO:2788

SEQUENCE LENGTH:125

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03249

SEQUENCE DESCRIPTION:

5 GATCAGTAAG GATGACTGGT GTTTCTGAC TTNACAAAA TTACTTGTTT GTTTTCATTA 60
 AAAAAAAGC ATAANCTATG TTTCTNATTA CTATTAGAAT TATTAAATTT CAAAATGAAT 120
 CAAA 125

SEQ ID NO:2789

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SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03251

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SEQUENCE DESCRIPTION:

GATCGATTCT NTGACACAAA CCCACCAAT TGTNAATGCA AGTTTTTATT TGGCTGTATA 60
 TACAATTAA GCTATTAATA TTTGTACAAT ATTTACAAAT NAAA 104

SEQ ID NO:2790

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SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03252

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SEQUENCE DESCRIPTION:

GATCATTACA TCTNAGATGT ACGTNGGTTT AGTCGGAAG GTGGGACGAT TTGAAGGGGA 60
 GGNACTTCA GGTACATAGC GGATTAAAA ATGTCCTGAT TAAA 104

SEQ ID NO:2791

30

SEQUENCE LENGTH:104

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03253

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SEQUENCE DESCRIPTION:

GATCCAAGCT ATGANATANC CAACAGTATT CAAGANGCAA CCAGCACCAT CATGTGATAA 60
 TGGTACTATG GCATATATGC AACATTAAAN TTTTAANTTA GAAA 104

SEQ ID NO:2792

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SEQUENCE LENGTH:132

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03255

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SEQUENCE DESCRIPTION:

GATCCAGTCT TAATTTGAGC ATGAGAGCAA AATTTAGTCA TCTACACAAG AAGCAAAAGC 60
 AAGGAATAGT TGTTGGGTTT TNGTTTTTTG GTTGTGTNT TTTTTGTTN GTTAGGNANG 120
 ANGTGTTCCC GN 132

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SEQ ID NO:2793

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SEQUENCE LENGTH:102
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03257
 SEQUENCE DESCRIPTION:
 GATCCAGGTG GTGTTACATG TCCATTTCAT GTTTGGGGG CTTTAGCCC NACAAAACAC 60
 CTTCAGTAGA GCCTTGATTA AAAGGAAACC TGNAGACTCA AA 102

SEQ ID NO:2794
 SEQUENCE LENGTH:100
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03258
 SEQUENCE DESCRIPTION:
 GATCTTCCC TAGGGGGCCC TCTTACTCCT NCCTCTCTCC TCCTCCTTCC CCATTGCTGT 60
 AAATATTNA ACGAAATGGA AAAGAAAAA AAAAGACAAA 100

SEQ ID NO:2795
 SEQUENCE LENGTH:100
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03259
 SEQUENCE DESCRIPTION:
 GATCACACAT CAAGACTATC TACAAAANTT TATTATATAT TTACAGNAGA AAAGCATGCA 60
 TATCATTAAA CAAATAAAAT ACTTTTATC ACAACACAAA 100

SEQ ID NO:2796
 SEQUENCE LENGTH:98
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03261
 SEQUENCE DESCRIPTION:
 GATCTAAATA CAAAGGATAT ACAGTCTTGA NTCTAAAATA ATTTGCTAAC TATTTTGATT 60
 CTTCAGAGAG AACTACTAAT AAAAATCTAA AAGGTAAA 98

SEQ ID NO:2797
 SEQUENCE LENGTH:97
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03263
 SEQUENCE DESCRIPTION:
 GATCGTNCCT ATAAATAGTA GGACCAATGT TGTGATTAAC ATCATCAGGC TTGGAATGAA 60
 TTCTCTCTAA AAATAAAATN ATGTATGATT NGTTAAA 97

SEQ ID NO:2798

SEQUENCE LENGTH:96
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
5 CLONE:HUMGS03264
SEQUENCE DESCRIPTION:
GATCACTAAA GTATATCTTT AATTCTGGGA GAAATGAGAT AAAAGATGTA CTTNTGACCA 60
TTGTAACANT AGCACAANTA AAGCACTTGT GCCAAA 96

10 SEQ ID NO:2799
SEQUENCE LENGTH:93
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
15 CLONE:HUMGS03267
SEQUENCE DESCRIPTION:
GATCTGCTGT CTCGTCCTT CCTGGGTCCT AGCAGCTGTC CTGCAGCTGT CAGCAGGAGG 60
GCCTGGCTTT AATAAAGAGT GGACAACTG AAA 93

20 SEQ ID NO:2800
SEQUENCE LENGTH:93
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
25 CLONE:HUMGS03268
SEQUENCE DESCRIPTION:
GATCAAGTTC GAGGAGGCAG TCATCGCTCG AAACCGGGCC CTGGAGGGCC GCTNACCCTG 60
CCGGANATAA AGNATACAGA GAGCCCCTCC AAA 93

30 SEQ ID NO:2801
SEQUENCE LENGTH:89
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
35 CLONE:HUMGS03271
SEQUENCE DESCRIPTION:
GATCCATTCT TGTATTGATA GATATTTGAA TGTTCAGT TTTTCCTATT ATGAATAAAA 60
CTGCTATGAA CATTCTTGTA TAAATCAAA 89

40 SEQ ID NO:2802
SEQUENCE LENGTH:95
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
45 CLONE:HUMGS03274
SEQUENCE DESCRIPTION:
GATCGACAGC GTCCTGGCCT AGGGTGCCGG GGCCTGAAGG TCAGGGTCAC CCAAGCAACA 60
AAGTCCCAG CAATGAAGTC ATCCACTCCT GCAAA 95

50 SEQ ID NO:2803

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SEQUENCE LENGTH:84
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03279
 SEQUENCE DESCRIPTION:
 GATCTCTACA GAGAGAAGTG GAAAATGCTG TATCAAGGGT GGGCTTAGCT GTGCCTTTCC 60
 AATAAAGATG TGAGAAGCTT CAAA 84

SEQ ID NO:2804
 SEQUENCE LENGTH:79
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03281
 SEQUENCE DESCRIPTION:
 GATCTTTGCC CTGGTATGC ATTTNTGGAC TCCACTGAAT CCTGNGAAAA AAAATTAAAC 60
 TTCCTTCTTA CTTGCCAAA 79

SEQ ID NO:2805
 SEQUENCE LENGTH:79
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03282
 SEQUENCE DESCRIPTION:
 GATCCTGTCA GTTCCATNAG CTATTCCTCT TTGGTTTGGC TTTTGTATAT NATTAAATA 60
 ATNTTTAATT CCTTTTAAA 79

SEQ ID NO:2806
 SEQUENCE LENGTH:77
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03283
 SEQUENCE DESCRIPTION:
 GATCAATTTT TATAAAAATC GAGACAGTTC TGTGGTTAAA TCTACAAATT AAAGGGAAAT 60
 TAGAAGTTGG CGTGAAA 77

SEQ ID NO:2807
 SEQUENCE LENGTH:77
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03284
 SEQUENCE DESCRIPTION:
 GATCTATTTT ATGCATATTG TTTATAAAGA CACATTTACA ATTTACTTTT AATATTAAAA 60
 ATNACCATAT TATGAAA 77

SEQ ID NO:2808

SEQUENCE LENGTH:75
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03286
 SEQUENCE DESCRIPTION:
 GATCTTCAGT AAGTCTCTCA GGCTCTCTGA GCTTGTTTCAT CCTTTGTTT GAAAAAATTA 60
 CTCAACCAAT CAAA 75

SEQ ID NO:2809
 SEQUENCE LENGTH:74
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03289
 SEQUENCE DESCRIPTION:
 GATCCCTTCA CAGCAGTAAA CCAGCTCTTT GGAACCGATT CCATCACCCC AATAAAGGAG 60
 CTCTTCACAG CAAA 74

SEQ ID NO:2810
 SEQUENCE LENGTH:73
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03294
 SEQUENCE DESCRIPTION:
 GATCTGTTTC TTTTAAATT TACACTTTN CTTTCCGGTT TGCCGGAATA AACAGGACCT 60
 TTGACATTG AAA 73

SEQ ID NO:2811
 SEQUENCE LENGTH:66
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03296
 SEQUENCE DESCRIPTION:
 GATCCATTCT AAGACTTATT GGCTGTTTGG AAGTGATAGC AAATAAAANC CACCTTGAAC 60
 TGGAAA 66

SEQ ID NO:2812
 SEQUENCE LENGTH:67
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03297
 SEQUENCE DESCRIPTION:
 GATCCGAGGG GGAGGGGTGG GAAGGGGAGA AAATNAAATA AAAGATAATT ACTGAACACG 60
 CCGNAAA 67

SEQ ID NO:2813

SEQUENCE LENGTH:63
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03299
 SEQUENCE DESCRIPTION:
 GATCATTGAA TTTAAGGCC ACCCCAAGTC CAGANTGACC TCGCAAGACC CTTAACTCAC 60
 AAA 63

10 SEQ ID NO:2814
 SEQUENCE LENGTH:62
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03300
 SEQUENCE DESCRIPTION:
 GATCTTTTGT ACTTNATA ACCTAATGTC AGACTAAGAA AAATAAAATA TCTGAGAGTA 60
 AA 62

20 SEQ ID NO:2815
 SEQUENCE LENGTH:60
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03304
 SEQUENCE DESCRIPTION:
 GATCCCTTCG AGACTAANTC TGTTACCAGT CATGAAACAT TAAACCTAC AAGCCTTAA 60

30 SEQ ID NO:2816
 SEQUENCE LENGTH:68
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03305
 SEQUENCE DESCRIPTION:
 GATCTTTGTC TTTTGTGTCG ACAAAGCATT TATTTAATAA AGTTATGCAN TCAGTTAAAA 60
 AAANCAAA 68

40 SEQ ID NO:2817
 SEQUENCE LENGTH:58
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03306
 SEQUENCE DESCRIPTION:
 GATCAGATTT TTTATGCCAT CCTCATTAGT TTTCCAATAC AATATAAGTT GAAACAAA 58

50 SEQ ID NO:2818
 SEQUENCE LENGTH:58
 SEQUENCE TYPE:nucleic acid

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TOPOLOGY:linear
 CLONE:HUMGS03307
 SEQUENCE DESCRIPTION:
 5 GATCTCAGAC TTCTGGCTTC CACAACTGTA ACAATAAATT TATGTCGTTT AAGCCAAA 58

SEQ ID NO:2819
 SEQUENCE LENGTH:57
 SEQUENCE TYPE:nucleic acid
 10 TOPOLOGY:linear
 CLONE:HUMGS03308
 SEQUENCE DESCRIPTION:
 GATCCACTGG GTGAATCCTC CCGCTCAGAA CCAATAAAAT AGAATTGACC TTTTAAA 57

15 SEQ ID NO:2820
 SEQUENCE LENGTH:56
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 20 CLONE:HUMGS03310
 SEQUENCE DESCRIPTION:
 GATCTGTGGT CATTGTCCCT CTGCAGAATA AAGATTGCTC AGGCCTGCCT GGCAAA 56

25 SEQ ID NO:2821
 SEQUENCE LENGTH:59
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03311
 30 SEQUENCE DESCRIPTION:
 GATCTTTGGT TTGTTCCAG GTTTGGTTAT TATNAATAAA GTTGCTGTGA ATACTTAAA 59

35 SEQ ID NO:2822
 SEQUENCE LENGTH:56
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03312
 SEQUENCE DESCRIPTION:
 40 GATCTTCATT GGGGGATTGA GCAGCATTTA ATAAAGTCTA TGTTTGTATT TTGAAA 56

45 SEQ ID NO:2823
 SEQUENCE LENGTH:54
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03313
 SEQUENCE DESCRIPTION:
 50 GATCTAAGAA ATAAAGAGAA ATGTTTCANT TTGCATTGAA ATAGGAAAAC GAAA 54

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SEQ ID NO:2824
SEQUENCE LENGTH:53
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03315
SEQUENCE DESCRIPTION:
GATCATNACT GGCTTTGCGC ATCGAGGGGC CATTAAAGAG TCTACTTTTC AAA 53

SEQ ID NO:2825
SEQUENCE LENGTH:52
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03318
SEQUENCE DESCRIPTION:
GATCTTTTA AAACGTGCAAG TGTGTAATAC TAGAGGTTGT TAGACCNTTA AA 52

SEQ ID NO:2826
SEQUENCE LENGTH:51
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03319
SEQUENCE DESCRIPTION:
GATCTTGCCA CTGTAGTCCA GGCTGGGCTA CGGAGAGACC CTGCCTCCAA A 51

SEQ ID NO:2827
SEQUENCE LENGTH:54
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03324
SEQUENCE DESCRIPTION:
GATCCTTGCT GATAAATATA ACCATCAATA AAGAAGCATT CTTTCCAAA GAAA 54

SEQ ID NO:2828
SEQUENCE LENGTH:50
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03325
SEQUENCE DESCRIPTION:
GATCTCACCA CACTGCAACC TCTGGCGACA GAGCGAGACT TGGTTTCAAA 50

SEQ ID NO:2829
SEQUENCE LENGTH:50
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03326

SEQUENCE DESCRIPTION:

GATCCACCCA CTCTCTGAAA CTTCTTTGCT AATAAAACAT TCCTACTAAA 50

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SEQ ID NO:2830

SEQUENCE LENGTH:55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03331

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SEQUENCE DESCRIPTION:

GATCTTTTT TTTCTTACA GACACCCATA ATAAAATATC ATATTAAAT TCAAA 55

SEQ ID NO:2831

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SEQUENCE LENGTH:53

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03332

SEQUENCE DESCRIPTION:

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GATCCAGGGG GAAATGCTGG AAGTCAATAA AACTGAGTTT TGAGAGCTTG AAA 53

SEQ ID NO:2832

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SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03356

SEQUENCE DESCRIPTION:

30

GATCCACATA AAAAGAAATG TGAAGTTTC TTTTACTATC TTTTCATTTA TCAAGCAGAG 60

ACCTTTGTTG GGAGGCGGTT TGGGAGAACA CATTCTAAT TTGAATGAAA TGAAATCTAT 120

TTTCAGTGAA A 131

SEQ ID NO:2833

35

SEQUENCE LENGTH:431

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03374

SEQUENCE DESCRIPTION:

40

GATCTGCTGA TTGCATTATT TTAATTTGCT TTTCTGGGAA AGCAGTTTTC CTAAAAGCTG 60

TACAGACTTT TNCTTTTGTA CCTAGCAGTA CTTTATATAG TATAGCTTTG GGCCATGTAG 120

CATTTTAAGA CTCAATTTTA AAAAAATNATT AATCTGTTGC TGACTCTTAA TTCCTATTTT 180

AATATGTGTT TCCTTGAAGA ATTCAGGATA CAACTTCTTG TGTATGACAG CTTTCCTTCA 240

45

CACACTATTT TNGTGGGTGT GTATATATCT GATTGGGAA GAATTAAAA AACACATAGC 300

TTTTNAATTN GTTTGAAACA GACTTTCTGC CTGTGACATT TNNGCNTTAA NCCAATTAAA 360

GAAGCCAATG GCATTTTNGG TTTTATATNG TGTTCAC TAGTATATCC CTGTGGATT 420

GTTTGTGCCC N 431

50

SEQ ID NO:2834

55

SEQUENCE LENGTH:429

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03375

SEQUENCE DESCRIPTION:

GATCCCATGG GTGGCACATT GGGACTTCTN TCCCTCCCC ATCTACACAG AAGACTGTCA 60
 CCATGCTGAC AGAAGCCTGT CCTTGTAAGG CCCAGCCTTC CAGGGGAACA CTCAGACATG 120
 TTCATTCTCT TCCTGCTTCT GCTCTGGGCC GGTGGGTGGC TCTCAGAAAA TACTTGCTGC 180
 TGGCAAAAGG CCTGTACTCA GGCATTGTCT TTGACTTGAT GTTGCCAAGG GACTGAGGCC 240
 ATTGGCAGGC TTAGTACCAC CTGCTCCTCA TCTTAGGAGT CTCCTTTTCA AATAATTAGG 300
 CTCTGTTCCC ATTTTAAAC TCTGATATTG GGCTTCACCT GTGACTGGAC ACTTTACTAG 360
 AGGCCCATTT NCACTAAACA NTAAATCTA AATAAATTGG AAGGAATAAC AACNACAAAG 420
 GGNTAGAAA 429

SEQ ID NO:2835

SEQUENCE LENGTH:427

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03376

SEQUENCE DESCRIPTION:

GATCTGGGCT TCCTNACTTC TGGAGAAGTG GCCATCCCAT GCCACCTTT NCCATGGAGG 60
 AGTGGGCCCT GCCAGCTGCC ACAGCTGCAT GACCTGCTTC CCCACCCAC GGTGTCGTTT 120
 TTTTTNAAA GGTACCTGT CCTCACTCAC CCAGCCAGCC CTTCAGGTGC NTTCTACTCC 180
 CAGTGCCAAA GCCAGACCAC TGGGGTTTCC TGCTGCAGGA ATTGGGGGCT GGGAACAGCA 240
 GAGGGGATAG AAGTNTGGTG GAGGTGGAGT GGGCACGCNT TAGCCTACGG AAAGGNCCAT 300
 TTTTGGGNC CACTGAGCTG CACTGGGATT TTTCANTTCT GGNCTGANT NCCTTTAGGG 360
 NAAATAACAC AGCAGGACCN CGGTGGGGAT TTAAAGNACT TTTTNTNNA GATTNAAANG 420
 GNTTCTN 427

SEQ ID NO:2836

SEQUENCE LENGTH:416

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03377

SEQUENCE DESCRIPTION:

GATCCTGATG CTGCCAGAGC CATTGTGGAT GCTTTACCAC CACCCTGTGA ATCTGCCTGC 60
 ACAGTACCAA CAGACGTGGA TAAGTGGTTC CATCACCAGA AAAACTAATG AGATTCTCT 120
 GGAATACANG CTGATATTGC TACATCGTGT TCATCTGGAT GTATTAGAAG TAAAAGTAGT 180
 AGCTTTTCAA AGCTTTAAAT TTGTAGAACT CATCTAACTA AAGTAAATTC TGCTGTGACT 240
 AATCCAATAT ACTCAGAATG TTATCCATCT AAAGCATTTT TCATATCTCA ACTAAGATAA 300
 CTTTATGAC ATGCTTAAAT ATCAAAGCAG TTGTCATTG GAAGTCATT GTGAATAGAT 360
 GTGCAAGGGG GNGCACATAT TGGNTGTATA TGTTCNCNT ATGTTAGGGG ATAAAN 416

SEQ ID NO:2837

SEQUENCE LENGTH:398

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03378

SEQUENCE DESCRIPTION:

5 GATCAAAGAT GAGGCCACAA GGACACCAGC AACTGAAGAG GCTGCCTACT TGGTATCAAG 60
 ACTGAAGGAG AACTACGTTT TGCTGAGCAC TGATGGCCCT GGGAGGAACA TCCTGAAGTT 120
 TAAGCCCCA ATGTGCTTCA GCCTGGACAA TGCACGGCAG GTGGTGGCAA AGCTGGATGC 180
 CATTCTGACT GACATGGAAG NGAAGGTGAG AAGTTGTGAA ACGCTGAGGC TCCAGCCCTA 240
 10 AGCCAGCCCT GCTCTGCCCTA AGTGTACTCC AGAAGAAACT CATCTCATCC AAATACACGC 300
 TATTGAGAAG GCGAGCCTGA CCTCCCTCTT ACAGATAAAG TCAGCTTTCA GAGGCTCAGG 360
 GTGGGGGGGC CTGCCCAGG CCATAATGCT ACCCACCN 398

SEQ ID NO:2838

SEQUENCE LENGTH:408

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03379

SEQUENCE DESCRIPTION:

20 GATCGCACAC ATGCTTTGTT TGGAATATGG AGTGAACACA ATTATGTACC AAATTTAACT 60
 TGGCAAACCT NCTATTGCCT GTCCCATGTG CATCTNATTT AAAATTTCCC CCATGGAAAT 120
 CACTCTCCTG TTGACTATTT CCAGAGCTCT AGGTGTTTAG GCAACGTGTG GTGTCCTGAG 180
 25 ANGGCCATAG CGCCATCATG GGCTGATTTT AATTACCAGG TCCCCAGAA GCAGGTGGGA 240
 GGCTCTGCTT CCTGCTGGCC GTTCTGCAGC CTGGACCTGT GGACCCTGGT TGTAAGNGT 300
 AAATTGTTTT CTTANGGAAA CCAGTGTAC CTTNTNTNAA CCTTTAAANT TAAAAAATAN 360
 TTTGGGGGAA NAAATTNCNG NNACNGGAGG GTTAAATTT ANCNANN 408

SEQ ID NO:2839

SEQUENCE LENGTH:388

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03380

SEQUENCE DESCRIPTION:

35 GATCCACCAG CTGAGCAGGG CGGGGCTGAG TAAATGCCGG CTTACCATCT CTACCATCAT 60
 CCGGTTTAGT CATCCAACAA GAAGAAATAT GAAATTCAG CAATANGAAN TGAACAAAAG 120
 ATTGGAGCTG AAGACCTAAA GTGCTTGCTT TTTGCCCGTT GACCAGATAA ATAGAACTAT 180
 40 CTGCATTATC TATGCAGCAT GGGGTTTTTA TTATTTTAC CTAAAGACGT CTCTTTTGG 240
 TAATAACAAA CGTGTTTTTT AAAAAAGCCT GGNTTTTCTC AATACGCCCT TAAAGGTTTT 300
 TAAATTGTTT CATATCTGGT CAAGTTGAGA TTTTAAAGA ACTTCATTT TTAATTNGT 360
 AATAAAAGTT TTNCAACTTT GATTTAN 388

SEQ ID NO:2840

SEQUENCE LENGTH:80

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03381

SEQUENCE DESCRIPTION:

GATCTTGCTG AAAGTGTTTC TAAAGATAGC ACCACTTTTT TTTNAAAAGC TTTTATATAT 60
 NAAAAACGT ATCATGCAAA 80

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SEQ ID NO:2841

SEQUENCE LENGTH:384

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS03382

SEQUENCE DESCRIPTION:

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GATCTTGCTC TAGCCTTTTN ACTTTTGCAA TTTCAGTATC TTCATCTCTA AACTAGGGAA 60
 ACACTNGGAT TCTTCTTAG CTGTGGGGGA AGGTATTTGG TTAGATGACT TTGAATGAAT 120
 AGACTGCTGT GCTGAAAGAG CTTTATCACA CTGTCTCAAA GTATGTAAAG ATACATAGGT 180
 GGATGCTCTT ACTGCAGCAG TCATGAATAC ATTTTATGCC ATTTACCTAA GGAAAAAGAC 240
 AGTTTTCTA GGTACCATGA AGGAAGATTG ACCCTGTTGG TATGCCTGTG GGGGTGGGAT 300
 GTGAGTGGGA CTGATAAACT GATACTTTTG GTTCGTATGT ACATACTGGN AGAATCTTCA 360
 TANTAAATGN GACTACACAA CAAA 384

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SEQ ID NO:2842

SEQUENCE LENGTH:376

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS03383

SEQUENCE DESCRIPTION:

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GATCCAGGGC AAGGCCATTG GGATATTCTG AAACCTGAAT ATTTTGTTTT GTGCAGAGAT 60
 AAAGACCTTT TCCATGCACC CTCATACACA GAAACCAATT TTNTNTNTNA TACTCAATCA 120
 TTTCTAGCGC ATGGCCTGGT TAGAGGCTGG TTTTCTCTCT TTTCCTTTGG TCCTTCAAAG 180
 GCTTGTAATT TTGGCTAGTC CTTGTTCTTT GGAAATACAC AGTGCTGACC AGNCAGCCTC 240
 CCCCTGTCCC CTCTATGACC TCGCCCTCCA CAAATGGGAA AACCAGACTA CTTGGGAGCA 300
 CCGCCTGTGA AATACCAACC TGAAGACACC GTTCATTGAG GCAACGNACA TAACAGNAAA 360
 TGAAGGTGGA CANGCN 376

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SEQ ID NO:2843

SEQUENCE LENGTH:370

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS03384

SEQUENCE DESCRIPTION:

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GATCCCAAAC CTAGCCCCCT AGTGGGACAA GGACCTGACC CTCCTGCCCG CATACACAAC 60
 CCATTTCCTC TGGTGAGCCA CTTGGCAGCA TATGTAGGTA CCAGCTCAAC CCCACGCAAG 120
 TTCCTGAGCT GAACATGGAG CAAGGGGAGG GTGACTTCTC TCCACATAGG GAGGGCTTAG 180
 AGCTCACAGC CTTGGGAAGT GAGACTAGAA GAGGGGAGCA GAAAGGGACC TTGAGTAGAC 240
 AAAGGCCACA CACATCATTG TCATTACTGT TTTAATTGTC TGGCTTCTCT CTGGACTGGG 300
 AGCTCAGTGA GGATTCTGAC CAGTGACTTA CACAAAAGGC GCTCTATACA TATTATAATA 360
 TATTCGCTTN 370

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SEQ ID NO:2844
 SEQUENCE LENGTH:367
 SEQUENCE TYPE:nucleic acid
 5 TOPOLOGY:linear
 CLONE:HUMGS03385
 SEQUENCE DESCRIPTION:
 GATCTGTCAT CTGGTGCTGC CAGCTGTGCT CACTCTGGTT TTCTGCTCAG GGTCTGAAGC 60
 10 AGCTGTCTGC TNCCTCCTCT GCCCCCATCC CCTGGCTCTC CCCTGGGCAC AGTGCCACTC 120
 CCTTGAAGG GAGGGAACCA CCCGTNAGCC CCAGGGCTTG GNAAGCCTGA GGCGETGNCT 180
 CTGCCTCTCC CTGCCCCCAG CACAATTGGC AGAGATGAGG CGGGTGGTGG ACGGCTGGGG 240
 GTGTCGTGGC AGGGTCTNGC ACAGGGNCAT GTCCTGGCTG TAACCCAGGC AGTGGGAGGT 300
 CTGCAAGCCT GGTCTATGGC TTCACAGCAN GGTNCTGTT GGACAGACAT ATCTGNATAT 360
 15 TTATNAA 367

SEQ ID NO:2845
 SEQUENCE LENGTH:366
 SEQUENCE TYPE:nucleic acid
 20 TOPOLOGY:linear
 CLONE:HUMGS03386
 SEQUENCE DESCRIPTION:
 GATCTCCAAC ACTATCCGAT AAAGTAGAAG CAACTGAGGT ACCGTGAAAG AGAAAGGAGC 60
 25 TGGAAGTGAG AAAAAGCAGA GGATTCGGAC GGAGAGCGCG AGGACTCGGC GGCTGAGCGC 120
 GCGGACAGC AGCTAGAGGC GCTGCTCAAC AAGACTATGC GCATTGCGAT GACAGATGGA 180
 CGGACACTGG TCGGCTGCTT CCTCTGCACT GACCGTGAAT GCAATGTCAT CCTGGGCTCG 240
 GCGCAGGAGT TCCTCAAGCC GTCGGATTCC TTCTCTGCCG GGGAGCCCCG TGTGCTGGGC 300
 30 CTGGCCATGG TACCCGGACA CCACATCGTT TCCATTGAGG TGCAGAGGGA GAGTCTGACC 360
 GGGCCN 366

SEQ ID NO:2846
 SEQUENCE LENGTH:365
 SEQUENCE TYPE:nucleic acid
 35 TOPOLOGY:linear
 CLONE:HUMGS03387
 SEQUENCE DESCRIPTION:
 GATCCCCCA AGGNGAAGTG TGAGACAATG GTCTATCACC CCAACATTGA CCTCGAGGGC 60
 40 AACGTCTGCN TCAACATCCT CAGAGAGGAC TGGAAGCCAG TCCTTACGAT AAATCCATA 120
 ATTNATGGCC TGCAGTATCT TTNCTTGGAG CCCAACCCCG AGGACCCACT NAACAAGGAG 180
 GCGGCAGAGG TCCTGCAGAA CAACCGGCGG CTGTTTGAGC AGAACGTGCA GCGCTCCATG 240
 CGGGGTGGCT ACATCGGCTN NACCTACTTT NAGCGCTGCC TGAAATAGGG TTGGCGCATA 300
 45 CCCACCCNNG GCCACGGCCA CAAGCCCTGG GCATCCCCTG CAAATANTTN TTGGGGGGCC 360
 ATGGN 365

SEQ ID NO:2847
 SEQUENCE LENGTH:364
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SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03388

SEQUENCE DESCRIPTION:

GATCTAGAGT ATGTTGAAGA AGATGGACAT GTGGTGGTAC GAAAACAATT CCCCTGTGGC 60
 CTGCTGGACT GGGTGAACC AGAACAGGCT AAGGCATACA GTTCTTGACT TTGGACAATC 120
 CAAGAGTGAA CCAGAATGCA GTTTTCCTTG AGATACCTGT TTTAAAAGGT TTTTCAGACA 180
 ATTTTGCAGA AAGGTGCATT GATTCTNAAA TTCTCTCTGT TGAGAGCATT TCAGCCAGAG 240
 GACTTTGGAA CTGTGAATAT ACTTCCTGAA GGGGAGGGAG AAGGGAGGAA GCTCCCATGT 300
 TGTTTAAAGG CTGTAATTGG AGCAGCTTTT GGCTGCGTAA CTGTGAACTA TGGCCATATA 360
 TAAN 364

SEQ ID NO:2848

SEQUENCE LENGTH:363

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03389

SEQUENCE DESCRIPTION:

GATCTGGGGA GGCAGGCATT CCTGAAGGGA ACTAGAGGTG TTACAGAGGA CCCTTACGTG 60
 AGAAATAGCT GAAAAGGGCA CTCGCAACCC TGGGCTGGGG AGGAGGAGAG AGTCCCAGAG 120
 CTCATCCCCC CTGCTGCCCA GTGCAAAACCA CTTNTCCATG CTGCAAAGGA GAAGCACAGC 180
 TCCTGCCAGG GTGAGCAGGG TCAAGCCTCT TATTCCAGGA GAAGGGGGCT CTGCCCAGGC 240
 CCTACTACCN ATTGTNCCCT TCCTCTTCTT GCCCTTGGAA CCCCCTNCT GTCCCAGGGC 300
 CCTTCNAGCC CATTGCTGCC AAGGTGGAGG GANGGATAAA GNCACCTCTG GGTTTTGAAG 360
 CCN 363

SEQ ID NO:2849

SEQUENCE LENGTH:361

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03390

SEQUENCE DESCRIPTION:

GATCTGGGTG TGGCCAAAAA CAATTTTNTT TATTCTGTCT ATCAAATAGT ACTTCTACCA 60
 CTGTTTGGAG AAAATTGAAG AAAAGAATAA GATGATTAAT TGAATTCTCT AAAAGAACAT 120
 ATTTTAAGAG ACAGAACTTA GACATAACCA AGTAGTTGTA TACCTGATTG TAACAATCAT 180
 CTTTATAAAA AGCAAAATTA TGCATAAATG TAAACACCC CTAAACAAAG GGAACAAATG 240
 ANTTTTGGT TATATTGTTT TCTTGGCTCA AAGTATCAAT TTATTATTAT AATAGAAATT 300
 TATAAGTTGC TAGAAAGTCT ATATTTTAA CGCACGGAAT AAAANTATGT TTTCTATTAA 360
 A 361

SEQ ID NO:2850

SEQUENCE LENGTH:355

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03391

SEQUENCE DESCRIPTION:

GATCTGTCTC CAAGACCTTG GCCTCTCCTT GGAGGACCTT TAGGTCAAAN TCCCTAGTCT 60
 CCACCTGANA CCTGGGAGA NAAGTTTGAA GCACAACCTC CTTAAGGTCT CCAAACCAGA 120
 CGGTGACGCC TCGGGGACCA TCTGGGGCAC CTGCTTCCAC CCGTCTCTCT GCCCACTCGG 180
 GTCTGCAGAC CTGGGTTCCT ACTGAGGCC TTTGCAGGAT GGAACACGG GGCTNGNAGG 240
 AGCTTTTGTG TGCCTGGTAG AAATATTTC TGTCCAGTC ACATTGGCCA TCACTCTTGT 300
 ACTGNCTGCC ACCGNGGAGG ANNCTGGTGA CAGGNCAAAG GCAGTGAAG GAAAN 355

SEQ ID NO:2851

SEQUENCE LENGTH:344

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03392

SEQUENCE DESCRIPTION:

GATCTAGTTC TACGTATTAC ACAGGTGTAA TATCTGTGAG TGTAATAAAC TGGAACGTGA 60
 CACTGATTAA CATGNCAGTT TCTCTTTTGT TGTCTTATC TGTACTGTAT TATAGTATGT 120
 GGGTATAAAT ATCTACAAGT ATACACACAT ATGTNCTNGT ATTCCACTAT TGTAACCTGG 180
 AAGAAAGACT ATGNATNCCC TNTNNAATT CCGTACTGGT ATNGTGTTA TTTAAAAAGC 240
 AAAATNCGGC TCTATTAGT TGTATAATAT TAGAGGGTAC TNNGCTTGN CACAATTCCA 300
 AGTGGCCTTA GAGCATTGTT TAGCTNNCCG AAGTATATAT AANN 344

SEQ ID NO:2852

SEQUENCE LENGTH:341

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03393

SEQUENCE DESCRIPTION:

GATCTATGAG CCTGTNTNGG ACAGCCAGAT GGTCATCATA GTCACGGTGG TGTGGTNTT 60
 GCTGTCCCTG TTCGTNACAT CTGTCTGCT CTGCTTCATC TTCGGCCAGC ACTTGCGCCA 120
 CMGCGGATGG GCACCTACGG GGTGCGAGCG GCTTGGAGGA GGCTGCCCCA GGCCTTCCGG 180
 CCATAGCAAC CATGANTGGC ATGGCCACCA CCACGGTGGT CACTGGAACT NAGTGTGACT 240
 CCTCAGGGTT GAGGTCCAGC CCTGGCTGAA GGACTTGTA CAGGCAGCAG AGACTTGGA 300
 CATTGCCTTT NNTAGCCCGA NTCAAACAC CTGGACTTAA A 341

SEQ ID NO:2853

SEQUENCE LENGTH:567

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03394

SEQUENCE DESCRIPTION:

GATCTCAAGA CCAAAGACAG ATGTCAGTGG GCTGCTCTGG CCCTGGTGTG CACGGCTGTG 60
 GCAGCTGTTG ATGCCAGTNT CCTCTAACTC ATGCTGTCCT TGTGATTAAA CACCTCTATC 120
 TCCCTTGGA ATAAGCAT ACAGGCTTAA GCTCTAAGAT AGATAGGTGT TTGTCCTTTT 180
 ACCATCGAGC TACTTCCCAT AATAACCACT TTGCATCCAA CACTCTTAC CCACCTCCA 240
 TACGCAAGGG GATGTGGATA CTTGGCCCAA AGTAACTGGT GGTAGGAATC TTAGAAACAN 300

GACCACTTAT ACTGTCTGTN TGAGGCAGAA GATAACAGCA GCATCTNGGN CCAGTCTCTG 360
 CCTTAAANGG AAATCTTTAT TAATCACGNA TGGTTCACAG ATAAATTCTT TTTTAAAAA 420
 AANCCCANNC TCCTNGGGAT GCACANCCTG TCAAGNGTCT TTTTACACAC AANTTTCAGG 480
 TTTNNCATCA CGGGGCTTTG ANTCNAGGA AATNAAAGGN GGGACAAATT TNGTTNGTTT 540
 ACNCTATGGT NCTTTNNTAA NAAACNN 567

SEQ ID NO:2854

SEQUENCE LENGTH:349

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03395

SEQUENCE DESCRIPTION:

GATCTTTACT TTTTACTTT TTATTCATCT TTGTGTTTT ATTTATCTAA AATGGGTATT 60
 GATTTTAAGG ACGGTTTTGA AAAAGAAAAG TGTGGGAAT GAAGCAAGTG ATTGATTGGA 120
 AACATACTG AATGGAAGAA ATATTTAGAT TAAAAATGAG GTAGGTTGAA GTTCTNCTC 180
 TGAATNATA GATAAATGGT GAAGATAAGG CTTATTGTGA GGNTTCAGTG AGGTAATATA 240
 TGCAAGTAC TTACAATGTT CTGGCACATA GTAATTNATT NNGANAATCG AGCACCCCTA 300
 ATTACCTAGA ATGCAGGGTT GTTAGTTTT NGTTGACTT TTGTTTTNN 349

SEQ ID NO:2855

SEQUENCE LENGTH:334

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03396

SEQUENCE DESCRIPTION:

GATCCGCTGT ATTGTGGAGT ATCAGAACAA GGGCCGCGGG AACGAGNGCG TGCAGTACCA 60
 GCATGTGTTA CATAGAAATC TCATTTATTT GGCTACCATT GCAGATGCCA GTCCAACCAG 120
 CACTTCAAAA GCAATGGAAT AATCTTTCAA AAGCAATAGA ATAATCTTCC ATTTGGCTGT 180
 CGTGAGGAGT AATTGAATGT AATCCATCTC TTACAAAATG GAGACAGGGT CTTTACCAAC 240
 TCAACTGGTT AAAACATGAN TGAAACCTCT GTGGCTCTTT CAAAACGTGG AAAATGTGAA 300
 GAANGCTACT TAACTTNGGC TGTATTCTCA TGGN 334

SEQ ID NO:2856

SEQUENCE LENGTH:332

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03397

SEQUENCE DESCRIPTION:

GATCGGCCTG CTGCTCCGCA ACTTCGACCG CTACGGCGTG GAGTGCTGAN GGACTCTGCC 60
 TCCAACGTCA CCACCATCCA CACCCGGGAC ACCCAGTGAT GGGGGAGGAT GGCACAGTGG 120
 TCAAGAGNAC AGACTCTAGA GACTGTCAGA GCTGACCCCA GCTAAGGCAT GGCACCGCTT 180
 CTNTCCTTTC TAGGACCTCG GGGTCCCTCT GGGCCAGTT TCCCTATCTG TAAATTGGGG 240
 ACAGTAAATG TATGGGGTCG CAGGGTGTG AGTGACAGGA GGCTGCTTAG CCACATGGGA 300
 GGTGCTCAGT AAAGGAGAGC AATCTTACA AA 332

SEQ ID NO:2857

SEQUENCE LENGTH:331

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03398

SEQUENCE DESCRIPTION:

GATCCTGGGT GTNTNTGTAA GGGTNTTGCC AAAGGAGGTT AACATTGGAC TCANTGGGCT 60
 GGGGAAAGGC AGACCCACCC TTAATCTGAG TGGACACCAT CTAATCAGCT GCCAGCGAAA 120
 ATAAAGCAGG CAGAAAANTG AAAAAANTAG ACTGGCCTAG CCTCCCAGCC TACATCTTTN 180
 TCCCATGCTG GATGCTTCCT GCCCTTGAAA ATTGGACTCC AGGTTCTTNA GTTTTGGGAC 240
 TTGGACTGGC TCTCCTTCTT CCTCAGCCTG CAGACATCCT ATTGTGGGAC CTTGTGTTTC 300
 TGTAAGTTCA TACTTAATAA ACTCTCCATA N 331

SEQ ID NO:2858

SEQUENCE LENGTH:351

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03399

SEQUENCE DESCRIPTION:

GATCGAGTCT ATACGCTGAA GAAANNTGAC CCGATGGGAC AACAGACCTG CTCAGCCCAT 60
 CCTGCTCGGT TCTCCCCAGA TGACAAATAC TCTCGACACC GAATCACCAT CAAGAAACGC 120
 TTCAAGGTGC TCATGACCCA GCAACCGNGC CCTGTCCTNT GAGGGTCCCT TAAACTGATG 180
 TCTTTTCTGC CACCTGTTAC CCCTCGGAGA CTTCGTAACC AAACNTTCG GACTGTGAGC 240
 CCTNATGCCT TTTTGCCAGC CATACTTCTT TGAGCATCCA GNNTNTNGTG GCGATTGAT 300
 TATGCTTGTT GTGAGGNAAT CATGGGTNGG CNTCNCCNT TAANGGGGTG N 351

SEQ ID NO:2859

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03400

SEQUENCE DESCRIPTION:

GATCCTGGGG GCCTGGGTTG GGGGCTAGGG AGACGCCATG TGATGGACAC TCCAGGGACA 60
 CACAGCCTAG CACAGCAGCT TATAATGGGC TCTCGGGGC CATTTGCAAT AACAGCTGCA 120
 ATTCCTGGA TAGACGAGTT GATTTCTTCC CTCTGCCCCT CCCCAGCCA TGCCAGCTGG 180
 CCTTTGTAAG TGCAGGAAAC CGAGTAGAAA ATGTGACCCT CCAATGGAG AAGCTGCAGG 240
 CTTTGCCATT GTGAACCATG GTGAAGTGCT TGGAACATAC TGTTCCTCA CTCTAAAGGN 300
 GCTGAGACTG TGCTGTTGTT CTCGTTTTTN 330

SEQ ID NO:2860

SEQUENCE LENGTH:330

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03401

SEQUENCE DESCRIPTION:

GATCTGGAAG GGACATGACT TCTGAAATAG CCGCTGCTGG GTTTTAAAAG CTGAGGTCTC 60
TCAAAGTGTG GAGGAGACGT TGCCGTCAGN GGGAGCCAAG TGCCGGGAAG ATGTCTATTT 120
TTTTCTTGT GTATTGAAAA TCATGATGTT TGTATGACT GCTGATGCGA TTGTNTTGT 180
5 AAATNTNATT GTGGCATATA CAGTATTGTC ATACAGTTGA AGAGAAACAA TGTTTCCTAA 240
TGTAAGTNCT CTGAAAATGT TGACACTGTA TATATATATA TNAGGATAGT TTGTNTTTCN 300
NTGTTTGGGG TTTNNNTTN TTTGNGTGN 330

SEQ ID NO:2861
10 SEQUENCE LENGTH:396
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03402

15 SEQUENCE DESCRIPTION:
GATCTTAAAC CCAAAGTACG AGAAATGTTT CTGTTGAATG TAATGCTACA TGAATGCTTG 60
ATTTATCAAG CGCCAAAAG GCATTGTATA GTAGGAAATG TAAGTGGGGT GGCTTATGGC 120
TTCTTATCC TCTGATTCTA GCACTTTCAA GTGAGCTGTT GCGTACTGTA TCATATTGTA 180
20 GCTATTAGGG AAGAGAAGAA TGTGCTTAA GAAAGACAT CACCATTGAT TTTAAATACA 240
AGTAGCAGGG TATTGCCTTT GATTCAACTG TTTAAGTCC TCATTTTCT CAAACTAAGT 300
GCTTGCTGTT CCCAAATATG GCAAGGNATA GCTTTTACAC TTTTCCCTG CCAACANNTC 360
NTNGATTGGC TTGCAGANA TNNAGGTTTG ANTTGN 396

25 SEQ ID NO:2862
SEQUENCE LENGTH:330
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03403

30 SEQUENCE DESCRIPTION:
GATCCAAAGT GACCCACCA GGGGACAGCC AGAGGAAGGG GACCATGGGG TATCCNNAGT 60
GTCCTGGTCT ATCACCACAG CTCTTTGTC CCCAGTACC CCCAGCCCAG CCAGCCAATA 120
AGAGGACACA AATGAGGACA CGTGGCTTTT ATACAAAGTA TCTATATGAG ATTCTTCTAT 180
35 ATTGTACAGA GTGGGGCAAA ACACGCCCCC ATCTGCTGCC TTTTCTATTG CCCTGCAACG 240
TCCCATCTAT ACGAGGTGTT GGAGAAGGTG AAGAACCCTC CCATTACGC CCGNCTACCA 300
ACAACAAACG TGCTTTTTTC CTNTTTGAAA 330

40 SEQ ID NO:2863
SEQUENCE LENGTH:329
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03404

45 SEQUENCE DESCRIPTION:
GATCTTATTT TCTGAGAAAT TGATAGCAAA TATGCCAGAA AGTGGACCTA GTTATGAATT 60
CCATCTAACC AGACAAGAAA TAGTATCATT ATTCAACGCA TTTGGAAGAA TTTCTACAAG 120
TGTGAAAGAA TTAGAAAAC TACAGGAAC TTACAGAAAT ATTCATTAAA GAAAACAAGC 180
50 TGATATGTGC CTGTTTCTGG ACAATGGAGG CGAAAGAGTG GAATTTTATT CAAAGGCATA 240
ATAGCAATGN CAGTCTTAAG CCAAACATTT TATATAAAGT TGCTTTTGTG AAGGAGAATT 300

ATATTGTTTT AAGTAAACNC ATTTTAA

329

SEQ ID NO:2864

SEQUENCE LENGTH:329

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03405

SEQUENCE DESCRIPTION:

GATCACTTCA GCTGCCTGCT GTGGACAAAG AACATCAAAT TACAGCATCA CGAGTGCTAT 60
 TTTTGCCTGT GGTGGTCTCC CTGTCCAAGC GGGNCCGCTT TGCAGAGACC AGAGGCATAT 120
 CGCGGCTTGA GCTGAAAATG CATTNTTGC AGCTTAGGTT GAATTATTTT NCGTTTGCTC 180
 TTTCTTCTAC ACGCGCCTGA TGGATAGTGA ACCTATTCAT CAAAAAAGTG CACTGCTCTN 240
 CTGTCTATTG TACCGACTTA ACCTCTTCCA CCCAAGTCCG CATCTGTGTG TATCATCAAT 300
 AAGTTGGTN GTGCCTTGGN TTGGGCAAA 329

SEQ ID NO:2865

SEQUENCE LENGTH:328

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03406

SEQUENCE DESCRIPTION:

GATCGGCGTG ACCACCCCTT GCCGGAGGTG GCCCATGTNA AGCACCTNTT TGCCAGCCAG 60
 AAGGCACTGA AGGAGAAGGA GAAGGCCTCC TGGAGCAGCC TCTCCATGGA TGAGAAAGTC 120
 GAGTTGTATC GCATTAAGTT CAAGGAGAGC TTTGCTGAGA TGAACAGGGG CTCGAACGAT 180
 NTGGAAGACG GTTNTNGGGC GGTNCCATGT TCTTAAATCG GTTNAACGT GTCGTTNCC 240
 CCTNTGAAA AAGNCTTNT GTTTACCGGC CCCCTTCCG AAAAGTTTTN ACAAANGGT 300
 GGGGTTGCCC AAGNAGGCCC AANAGGNN 328

SEQ ID NO:2866

SEQUENCE LENGTH:327

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03407

SEQUENCE DESCRIPTION:

GATCTACAGA GTTAGAAATT CGAAAACTAT TCCAGGACTA ATTCTTAATC GGCATTATTT 60
 ATACAAGAGG TCAAGTAACA TTTACTAGCG CAATACTGCA CTTGTAATG AATTATAAAC 120
 GCTCTTCTGG AATATATTTA AATAACCATT AAAGAACTGC TTATTCATNC TGGACACTGC 180
 ATGTNGATGT TGAATCAACT GATGCCAGCA GAAAGCTATT TTGATTGTG AACATACTGC 240
 CTTATTTAAA GGGTCCTGAT TGCTTGTATT TTANGNCATT CATTAAAAAG AAACCAGGAA 300
 ACACCTTTGA ANTAACAGCA TANGGNN 327

SEQ ID NO:2867

SEQUENCE LENGTH:327

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03408

SEQUENCE DESCRIPTION:

GATCACCCCTC CTCCCAAAAA GCAAGAGCTT GTTTATGGCT GAGGAATCGG CGGATTGTCT 60
 GAATGACACA TATACAGAGC CCCACGGAT TTCTNCACAC TCTGGGTCTG TGCTGGTGGA 120
 ACATTGCCAA TNAGTTCTTA ATGAGGCACC TGTGTGTAAA TACATGCTTG GTCTTCTCTG 180
 CAGAGAACTG AGGCTAAACT CTGTCCCTAC TTCTGGTTTT GCCCTGTNAT GTCGTAACGA 240
 GGTGGGCCTT TTGAGGCCAT TTTAGTTTGA GTTCGAGCCA ACCACCTCTG GTTGGTAGA 300
 TGATTGAATA AAAAGTTCT GAAGAAA 327

SEQ ID NO:2868

SEQUENCE LENGTH:326

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03409

SEQUENCE DESCRIPTION:

GATCCAATCA CCTCCACCA GGCTCCACCT CGAATACTGG GGATTACCAT TCAGCATGAG 60
 ATTTNGGCAG GAACACAGAC CCAAACCATA CCACACACAT TATCATTGTN AAACCTTTGTA 120
 AAGTATTTAA GGTACATGGA ACACACGGGN AGTCTGGTAG CTCAGCCCAT TTNTTTATTG 180
 CATCTGTNAT TCACCATGTA ATTCAGGTAC CACGTATTCC AGGGAGCCTT TNTTGGCCCT 240
 CAGTTTGCAG TATACACACT TGCCANGTAC TCTTGGTAGC ATCCTGTTTG GTATCATNGC 300
 ACTGGGTCAC ATTGCCTTAC CTAAAN 326

SEQ ID NO:2869

SEQUENCE LENGTH:325

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03410

SEQUENCE DESCRIPTION:

GATCTATGGA ACAGAGGAGG AGCGATGCAG TTGGGAGAGG AAGCTAGAAG GGTATGGTT 60
 GGAGTTCTGT ACAGTGTGA GTTCCGACA GGGAAAGAGG ATTCTCCAA TGCGCCTAGA 120
 GAGAAAGCCT GAGCAGGAGA TGATGCAGCA GAGGGGAAGG GCCCTGTGGT GCCGCCGCC 180
 TTCTTTCAGC CTCCGAAGGT GATGGAAATG GAGAGTGGAG GACCAGGCCT CCAGCTGTNT 240
 GGCCTNGCCN TTCAGCCTT AACACTAAGC CCACCTCCCC TTNTCTCCTT CCCAGCATTG 300
 AGCCCTTGGT TGCCTGGGCC CAGGN 325

SEQ ID NO:2870

SEQUENCE LENGTH:325

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03411

SEQUENCE DESCRIPTION:

GATCTTCAGA AACCTTGCTA GGAGAAGTTA ATGAAAATAG AGTATCAATA GCATTGAAAA 60
 AAACCTCTGA AATCCTTAC GATATTGACT GTCTTCTATC AAACCTTAAA AAGTGAAAAA 120
 TGGAATTATT ACAACATATT ATTAAGTTT AAGGATGTTG TTTCAAGTGA CTGGTATAAA 180
 ATTACTAGTA AGCCAAGATA TTGTACGTAT TACCCCGCA CAATGATTGT GAAAGANCTG 240

ACATTTAACT TTGAAGGTAT TTTAACCTG TACATTTTAA AAATATGTAT TTATATCTNA 300
 NTANTAAATN TTTCGAAGTT TAAAA 325

SEQ ID NO:2871

SEQUENCE LENGTH:325

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03412

SEQUENCE DESCRIPTION:

GATCCAAGCG GAGATTGACG CTGCAGCGGA NACTCATCGA CTTCTTCCGG TTCAATGCCA 60
 AGNATGCGGT GGAGCTGGAG GGGCAGCAGC CCATCAGCGT GCGCCGAGC ACCAACAGCA 120
 CGGTGTACCG GGGTCTGGAG GGCTTCGTGG CGGCCATCTC GCGCCNTTAA TTTACTGCAA 180
 TCGGCGGCAA CCTGGCGGGG GCACCGGCCC TGATGCTTCG AGAGGGAGTT GTGACTCTGC 240
 CTCTTTGCCA GATGACAAAA CTGAGACACA CAGCCGTGAC TTACTTGGCA AGACTGAGTG 300
 ACTAGTAAAT AAATGATGGA GCAGN 325

SEQ ID NO:2872

SEQUENCE LENGTH:323

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03413

SEQUENCE DESCRIPTION:

GATCCTCCTT CTAGCTCATC TGTAATACT AGTAGTAGTC AACCAAAGCC TTTCAGACGA 60
 GTAAGACTTC AGACAACATT GAGACAAGGT GTCCGTGGTC GTCAGTTTAA CAGACAGAGA 120
 GGTGTGAGCC ATGCAATGGG AGGGAGAGGA GGAATAAACA GAGGAAATAT TAATTAANTG 180
 GTCTGTAAAC AATAACAACT GTGAATAAGA TTATCAAATC TTTTTAGTG TAATGATTGT 240
 CAAGTTTAAA ANCATTTTTN TATATAACCT GGTATACTCA TGTCAATATN CTTTATTAAT 300
 AAAANGNTT TCAGTGTCAT AAA 323

SEQ ID NO:2873

SEQUENCE LENGTH:322

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03414

SEQUENCE DESCRIPTION:

GATCTGCCCC TCTCAGCCTC CCAAAGTGCT GGGATTACAG GTATGAGCCA CAACGCCCAN 60
 CCATCATTTA TCTTTTTCAC TCATTTTTC ATGAGTATGC AGAGGAGTTT TCAAGAGGCT 120
 ATCTGGTGTG ATATTGTAAT AGGCTGAATG CAAAAGCAGA TACAAGATTC CAGCTTTCGT 180
 CTGTCATCAG ACATTGAAGA GATTGGAGA AATGTAAAGC AGCAGTACTC TTCTCACTAA 240
 TTTTGTGTG GGTAGTTAG AAAAATGGTT ATTTNAGTG GGTTTTAATA TGTGAAAAAA 300
 ATAAAAATTAG CTATTTGCCA AA 322

SEQ ID NO:2874

SEQUENCE LENGTH:319

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03415

SEQUENCE DESCRIPTION:

5 GATCACCTNT GCGGTGTTCC TNCCAAAACN GCATAGCCCC AATCTAATAT CATCCCGAGG 60
 AAATACCAGA CACACGCAAG GGAAGGACA TTCTACAAAG GAACGGACTC ATACTCTTCG 120
 AAAAGTGTCA AGGTCATCTA CGACAAAAGA CTGAAAGGAC CCCAGTCGAA AAAAGNCAAG 180
 ATGACAAANT GCAACGTTTC ATCCTAGACT GGATTCTGGA CCAAAAAAT CCCCTTCTTT 240
 TGTGAGAAAG GAAATTTGTG GAACAACCTGG CAAATCTGG AGTTGGGTCT GCAGATTACA 300
 10 CACTGGTATC GCAGCGAAA 319

SEQ ID NO:2875

SEQUENCE LENGTH:320

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03416

SEQUENCE DESCRIPTION:

20 GATCTCCCTT CGTGGAGACG ACACCGGGGT CCTCCTGCCC ACCCCAGGGG AGGCCCAGGA 60
 TGCTGATTG AAGGATGTAA ATNTNATTCC AGCCACCGCC TGACCATCCG CCATTCCGAC 120
 TGCTAAAAGC GAATGTAGTC AGGCCCTTT NATGCTGTGA GACCTCCTGG AACACTGGCA 180
 TCTNTGAGCC TCCAGAAGGG GTTCTGGGCC TAGTTGTCCT CCCTCTGGAG CCCNGTCCTG 240
 TGGTCTGCCT NAGTTTTNCC CTNCTAATAC ATATGGCTGT TTTCCACCTG GNTAATATAA 300
 25 CCANGAGTTT GGGCCGNAAA 320

SEQ ID NO:2876

SEQUENCE LENGTH:308

30 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03417

SEQUENCE DESCRIPTION:

35 GATCTCTGCT GTGNTCCCA GAGTTACTGC TGCCAGACTG AACTGGAAGG GGAGGATGTA 60
 GGAGCCTGCA CAGCTCACAC CTACTCCTGT GGCTCTGGAG TGGGCATCTN CCTGAGAGTA 120
 CGGGAATGTN AGGTGCTATT TTAAGCTGGC AAAACCAAAG GCTGTTTTNA TTCTCCTCCT 180
 TACCTTGATG ACTATGGGGA GACCGACCAG GGACTIONAC GGGGAAATCC TTTACATTTA 240
 TGCAAAGAGC GATTCAAGAA GATTCAGAAAG CTCTGGCACC AACACAGTGT CACAGNGGAA 300
 40 NTTGGNCN 308

SEQ ID NO:2877

SEQUENCE LENGTH:308

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03418

SEQUENCE DESCRIPTION:

50 GATCTTGACC ATGACAGTTT TNCACCTTTA ATGAAACGGG GAACCAAGAG GAACTTACTT 60
 GTGTAACNA CAATTNCTGC AGAAATCCCC CTTCTCTAA ATNCCCTTTA CTCCACTGAG 120
 GAGCTAAATC AGAACTGCAC ACTCCNTCCC TGATGATAGA GGAAGTGGAA GTCCCTTTAG 180

55

EP 0 679 716 A1

GATGGTGATA CTGGGGGACC GGGTAGTGCT GGGGAGAGAT ATTCCTTAT GTTTATNCGG 240
AGAATTTGGA GAAGTGATTG ACCTTTTCAA GNCATTGGGA AACAAATAGA NCACANTATA 300
NTTNNCN 308

5

SEQ ID NO:2878
SEQUENCE LENGTH:307
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

10

CLONE:HUMGS03419

SEQUENCE DESCRIPTION:

15

GATCTAGAAG ACGATTAAGG GAAGGTCGTT CTCAGTGAAA ATCCAAAAAC CAGAAAAAAA 60
TGTTTATACA ACCCTAAGTC AATAACCTGA CCTTAGAAAA TTGTGAGAGC CAAGTTGACT 120
TCAGGAACCTG AAACATCAGC ACAAAGAAGC AATCATCAAA TAATTCTGAN CACAAATTTA 180
ATATTNNNT TNCTGAATGA GAAACATGAG GGNAATTGTG GAGTTAGCCT CCTGTGGTAA 240
AGGAATTGAN GAAAAATNTAA CACCTTACAC CCTTTCCAT CTTGACATTA AAAGTNCTGG 300
CTAACTN 307

20

SEQ ID NO:2879
SEQUENCE LENGTH:307
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

25

CLONE:HUMGS03420

SEQUENCE DESCRIPTION:

30

GATCTTGAGG GCAGACAGCA GAATTCCTCT TATAAAGAAA ACTNTTTNGG AAAATACGTT 60
GAGGGAGAGA NGACCTTGGG CCAAGATGCT AAATGGGAAT GCAAAGCTTG AGCTGCTCTN 120
CAAGAGAAAA TAAGCAGGNC AGAGGATTTN CTCTGGACAG AGATGGAAGA GCCGGGAACA 180
GAGAAGTNTG GGGAAAGAGAT AGGAACCAGC AGGATGGCAG GGGNNNNGGG CTCAAGGGTN 240
AGGAGGCCAG TGGGACCCCA CAGAGTTNGG GGAGATAAAG GAACATTGGG TTGCTTTGG 300
TGGCACN 307

35

SEQ ID NO:2880
SEQUENCE LENGTH:305
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear

40

CLONE:HUMGS03421

SEQUENCE DESCRIPTION:

45

GATCTGCCGT GTCCTTATAA AGTGGATGAA AAATGTTTTG TACCCATCTG GAAAACCAAC 60
AACTTGAAAT CTCAGGTATT CCAGGTCAC TACATGAATT TGAAGATATA TCTATCTGTA 120
TGGATATATA TCTATATGTA TATAGATATA TAANTACAGA GAGATATCTG GCTTGGTTTT 180
AATTATGTNC TTAATTTGTG GTGCCAATAA TTGCATATAG ATTTTNTTNC TTAATATATT 240
GACTGTGGAA CATGCCATTT TAAATATGTN GTAAGGCCTG TNNTAATAAA ACGTTTAGTA 300
TGAAA 305

50

SEQ ID NO:2881
SEQUENCE LENGTH:305

55

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03422

SEQUENCE DESCRIPTION:

GATCCACTGA TGGCTCCAGA CCCCAACTTT AGCCATTGCA CGTGTGAAC TCCAGGTTGA 60
GCCTTTGCTG GAGCCGCTG CAAGGNGCAT GTTGACCAA TCCCAGTGG AGGGGAGGGT 120
GGTGTTCCT TTCTGGGACT TCCACAAGTT GAGAACAGAC CATGCTGCC TGGGCAGTTC 180
TTGAAGGCTG TGAGAGTGGG CCTGACAAAG TTTATTCCTT TTTTTTTTC CATTNCCTT 240
TATNATNATA ATTGTTTGA ATNGNCAANT AAAATNATG TATATTTATG ANGTNCANCA 300
NGAAA 305

SEQ ID NO:2882

SEQUENCE LENGTH:303

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03423

SEQUENCE DESCRIPTION:

GATCAGGAAA GTCATACTGT TCACTTTCAA GNTGGCTGTC CCCCCGCGG AGCCCCCCA 60
CCCCCATATG TACAGATGAT ANTAGGTGT GGAATGTCGT CAGTGGCAA CATTTCACAG 120
ATTTTATTT TGTTCCTGTC TNANCNTTT TTGNCACTGT GCTAATAGTT ATATTCAGTA 180
CATGAAAAGN TACTACTGTG TTGAAAGCTT TTAGGAAAT TTTGNCAGTA TTTTGTACA 240
AAACATTTT TTGAAAAAT ACTGGTTANT TTATNCTATT TTAATTNGCC AATGTCAATA 300
AAN 303

SEQ ID NO:2883

SEQUENCE LENGTH:375

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03424

SEQUENCE DESCRIPTION:

GATCACCGGA CACAATCCTG CAGAAGGACA CACGACTCTA TTTCTACAG TCGGAAACTT 60
GTCATTCTAG ATGTNCTGTT GCCAGTATCA AAACCGGCTT CCAGGCTGTC ACGGGCAAGC 120
GAGCACAGCT CCGTGCCAAA GCTAACTAAT TTGCTAATCA CTGATTTNC AAAGCTTGTT 180
GTGGAGATGT GGCTGGACAG GTTTGCCATC AGAGTGGATA TACCGTTGTA TAAAAACAA 240
GATAAAAAAG CTGCCAAGAT TTTTGGCGNG TGGTTGGTCT GAAGTCCTG CAAGACGCTG 300
NTGCTCAAGC TGTTGACATA CTCATTGGCC TACTTTTAAC ACCTGTCCAG AGGAAACGTG 360
NTATGGGGGT AAGTN 375

SEQ ID NO:2884

SEQUENCE LENGTH:301

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03426

SEQUENCE DESCRIPTION:

GATCAGATAG GAGCACAAGC AGGGGACGGA AAGAGAGAGN CACTCANGCG GCAGCATTCC 60

EP 0 679 716 A1

CTNCCAGCCA CTGAGCTGNC GTGCCAGCAC CATTCTGGT CACGCAAAAC AGAACCCATT 120
TAGCAGCAGG GAGACGAGAA CACCACACAA GACATTTTTC TACAGTATTT CAGGTGCCTA 180
CCACACAGGA AACCTTGAAG AAAATCAGTT NCTAGNNNN GCTGTACCT CTGTTTACA 240
GTTTATATAT ATATGATAGA TATGNGTAT ATATATAAAA GGTACTGTTA ACTACTGTAA 300
A 301

SEQ ID NO:2885

SEQUENCE LENGTH:297

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03427

SEQUENCE DESCRIPTION:

GATCGGGGGA GGGTAAATAA TGCAAAATTT GCACAGTGGA AGAAGGGGTC TCACAAAAAG 60
CAATCCATCC TGTAATATAG GTANNNGNGT TGGGGGAAGC AGCTTCCATT CTGGATGTTT 120
GGAACCCCTTT AGCTTTGTTT TGGAATGGCC CACCATTCTC ACTGGAAAAC AGTGGTCTGC 180
TGTGAAAGGC CAGCTCTCGG CAGCCCCTGT GGTTCAGCG CTGCCGCTCT GTGTCATTCA 240
GGTTGTGCAC ATTGTTTTTC TTCTGACTTC CAGAAATAAA AGTGTTCCTA TGGGAAA 297

SEQ ID NO:2886

SEQUENCE LENGTH:296

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03428

SEQUENCE DESCRIPTION:

GATCTGGGTG CCTTGGGAGA NCCAGTCTT CTTTTNACC CACCCAGGA AGATGGAGTN 60
CTCTTNTCTA GGCCCATGTC CTGCCAGCAA CCGGGATGCG TGGGCAACTG GACTCTGCAC 120
GGGGGTCTAC AGGTTGAGGG AGGTTGGTCA CAATNAGAAC CTCGGGGTTT GAGGTGBCCA 180
TGGGCAGACA GCCNNAAGGG AGGGAGGGTG TGGGTGTNCG TGTGTGCATG TCCTGGTNTG 240
TAAGGGGAAA AGGGTCTTTC CTGGTTTTAT TTAAATAAAG TAGTTTATGT AACAAA 296

SEQ ID NO:2887

SEQUENCE LENGTH:296

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03429

SEQUENCE DESCRIPTION:

GATCTGTGCN GTGGTCCTNA GGCAGTTGTN TCCACACAAG TACTACTTCC TCGTGGGCTA 60
CAGTNAACT TTGCTGCTCT ACTTTAACAA ATGTCCTGTG CGACTCCACC TCCTAACTGT 120
GCCCTCAAAG GTTGTGTATA AGTACCTCTA GAACAATCCC CTTTTNCCA TCAAGCTGTA 180
GCCTGCAGAG AATGGAAACG TGGGAAAGGA ATGGTATGTG GGGGAAATGC ATCCCCTCAG 240
AGGNCCTGAGG CATAGTCTCT CATCTGCTAT TGANTAAGA CCTTCTATCT TGTAAG 296

SEQ ID NO:2888

SEQUENCE LENGTH:356

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03430

SEQUENCE DESCRIPTION:

5 GATCTACTCT GTATGGGTAC CAAAATCACC TTCTCTCTTC AAGTCAAAGT TGAATTTAGA 60
 ACTTTGAATA CAGGTCAAAA AATGTAGAAA ATATCATTTT ATATTCCCTA ATCTATATAG 120
 CTGAAAAAGG GTTGTATTTT CTTAGCTGAA TATGAATACC TCTTAAACAT AAATTAGTTC 180
 CTCTCCAGTG AAGTATCTTA TTTTACCAAT CCATTTCAGG AAAGAGGTTC TGCTGCCGTA 240
 10 AAGGCAGAAA TTTTATTTT ATCCCTTTTA TTTGAATGAG AGATTTGAAA ATCGAATTAT 300
 GTAAATATTT CAATGCATCT GCTATTATTT TGTGGAGTTT ATTAAACTAC TTAAAA 356

SEQ ID NO:2889

SEQUENCE LENGTH:293

15 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03431

SEQUENCE DESCRIPTION:

20 GATCCCAAA CAAATCTTAG AATCANTTCA TTTAAAATAC TGAGCGGTAT TGANTACTTC 60
 GAAGCAGAAC AGGCAATGTG CAGCCCTCAT TTATGAGAAA ACCCTCAGGA AACTCCCAGG 120
 GTGATGCTTG GNGAAGCTGT GAGTTGAGCT GAAGCTGGAG AACTTCCTCC AGAGCAAAGG 180
 GCTTAAGAAA GAAAGANGAA CTCTAAGCTG GGTCTGCTAA CATCACTCCA GTTTAGATGG 240
 25 NTCTGTTTT TCCTTAACAN GTTGAGGCGT GGGTAGAGCA GGANTTGGTT TTN 293

SEQ ID NO:2890

SEQUENCE LENGTH:289

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

30 CLONE:HUMGS03432

SEQUENCE DESCRIPTION:

GATCTGAAAT AACATTAATT TGATTGTAAC CCTATTGGGG TTAGTTCCCA CCCTTTGTTC 60
 CATCTTGAGC AGAGATGNGC TGCATTTCTT AACGTTTGGT CTCTATACAT TATACCATCT 120
 35 GCTGAAGTTT AGCTTTGTGT GTGTGTATAT GTACCCATGT GTGCACITTA AATATCAGTA 180
 CAAACTGATA AACAATGTTT CTGGTTAATG TTGCAAAAAT GGAACACTGT ATTNACATA 240
 ATTGATTTTC TACTCCTGCC CTGTGAATTA AGGCAGAGTT TTAGTGTAN 289

SEQ ID NO:2891

40 SEQUENCE LENGTH:286

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03433

SEQUENCE DESCRIPTION:

45 GATCTTCCA CACCAGCCTC CCAAAATACT GGGATTACAG GCTTGAGCCT CCATGCCTGG 60
 CCCAGGTAAC ATGTTTATTG AGCTGTACAT GCATATGAGA AATAAGAAAC TTTTTCCTCC 120
 TACTATCATC TCTTAAATNT NGTNTTCTTT TTCTTTTGCT TCCTCTTCTT CTNTNCTATT 180
 TNTNATAAAT ATCATGCACA ACTATAACCT ATGGGAATNA TGTAGTAACA CAGATTATTG 240
 50 ATCTTGTTAG AGTTGTATTA AAAATAACA AGCATTTCAA ATAAAA 286

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SEQ ID NO:2892

SEQUENCE LENGTH:286

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03434

SEQUENCE DESCRIPTION:

GATCCAAGAC CAGGGTGGTT GGGGGCTGCC CCTGGCCGAG TCACTGAAGC GACTNATGTC 60
 CCTGTNTCCA GGACGANCTC CTCTCCTACT TTGGGACGCC CACGTGGCAG ACCGTGACCA 120
 TCTTTGTGGC GGNAGTGCTC ACCGCCTCAC TCACCATCTG GAAGAAGATG GGCTGAGGCC 180
 CCCAGCTGCC TTGGACTGTG TTTTCTCTCG GGTAANNNGN GGCATTNTTC TGGGAGGGGT 240
 GGGGATTGGG GGACATGGGC ATTTTCTTA CTTTGTAAAT TATTGN 286

SEQ ID NO:2893

SEQUENCE LENGTH:285

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03435

SEQUENCE DESCRIPTION:

GATCTGCNGG GGCNTGTNCA GCTGCAGCAT TCCTGAAAGA TTTCGTAAC CATCCTAAGT 60
 GGGCACATTT AGACATAGCA GCGTGATGA CCAACAAAGA TGAAGTCCC TATCTACGGA 120
 AAGGCATGAC TGGGAGGCC ACAAGGNCTC TCATTGAGTT CTTACTTCGT TTCAGTCAAG 180
 ACAATGCTTA GTTCAGATAC TCAAAAATGT CTTCACTCTG TCTTAAATTG GACAGTTGAA 240
 CTTAAAAGGT TTTTGAATAA ATGGATGAAA ATCTTTTAAAC GGAAA 285

SEQ ID NO:2894

SEQUENCE LENGTH:284

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03436

SEQUENCE DESCRIPTION:

GATCAGCTCT TTCTATTTTT ACTCGTAAAA ATTATGGAAA TAAATAATTT TGCTAACAAC 60
 TTTGAAATTT CAAACTTCTG GAAAAATGA AAATATTCAT TGTTATTAT GAATTTAAAT 120
 TGTAAGGTAT GAATGTNATT TGTCTGTACA TCTTGTATCT TTTCCAAAA ATGATTCTGT 180
 ATCTTTTGA AAAAAAGCCGA GAGTTGAAGA TAGTATATTT CTGGTAGTAC TGAATATTTA 240
 CTTACAGTTT CTATCAAAAA TATATATTTG TTTCTAAAA TAAA 284

SEQ ID NO:2895

SEQUENCE LENGTH:283

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03437

SEQUENCE DESCRIPTION:

GATCTCCTTG TTAGTGGTGG TAGGGAGCTA GACAAGGATG GCAACTATTT CTGTATCTTA 60
 CATACCTTTN ATTTNGAGGC CCGTCAATG TTTTATATAA TANNCATTTT TTGAAAAGGC 120

AACTCTTAAA ACTAAAACAA ACTTAACAGT CTGTCAAGTT GGTGATATAA CCCCACAGAA 180
 GACTTACTTC AAGTGACTTG AAAACTTAGT ATTTGTCTG TNCTTTGCTA ATGGGNATAN 240
 ATCCTACAGA CCAAACANCC NCAGNTAANT CTTAANCTGC AAA 283

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SEQ ID NO:2896
 SEQUENCE LENGTH:279
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear

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CLONE:HUMGS03438

SEQUENCE DESCRIPTION:

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GATCCCGGGA GACCTGGGGC TGCCGAAGAA GCTCTGCTCC AAATGGAGAG TGTAGCCTGA 60
 GGGCTGGTGT TGCCTGCCTC CCCTGTNCTT GTNCCTTGTC CAAAAATAAA TCCTTTCAGA 120
 ATGTAGCACT CACGNCCTAA TAAGGAGCGA ATCCTACATC CACCAAGGCG GGCCTCTGG 180
 CCCTCCCTTC CTTAAGCCCA GTCCTGTGTC CTCTGAAAGA GGTGTCAGTC ACTCACACCN 240
 GCTTGCCTC ACCATCAATA AAAGTAATTT CACCNGAAA 279

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SEQ ID NO:2897
 SEQUENCE LENGTH:278
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03439

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SEQUENCE DESCRIPTION:

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GATCCCTCC CCCAAGATAC TCTTTGTGGG GAAGAGGGGC TGGGGCATGG CAGNCTGGGT 60
 GACCGACTAC CCCAGTCCA GGGAAAGTGG GGGCCTNCCC CTAGGATGCT GCAGCAGAGT 120
 GAGCAAGGGG GCCCGAATCG ACCATAAAGG GTGTAGGGGC CACNNNNCTC CCCCTGTNCT 180
 GTTGGGGAGG GGTAGCCATG ATTTGTCCCA GCCTGGGGCT CCCTCTCTGG TTTCCTATTT 240
 GCAGTTACTT GAATAAAAAA AATATCCTTT TCTGGAAA 278

35

SEQ ID NO:2898
 SEQUENCE LENGTH:276
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03440

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SEQUENCE DESCRIPTION:

GATCTGCTTA CCAAGCATAT TAGGAAATAC CTCTTAGGAA GCATTAGCGG TCTCAGGCCA 60
 ATTACTGTGG AGCAGCTTTC ATTCCTACCC ACTTGCAAAC CTTGGCGCTG TTGTCTGAGA 120
 TTGCTGCAGC CATTCTTGT ACCATGGTAC TTCTCAAAC TGTGAAAAC CTGCACTTTT 180
 CCTTGCATGA CAGGTTCTG TCTTGTCTGT CATGGGAGCC ATTCTGCCAA TTAAATGCG 240
 ACTGTGGTAT AAACAGTAAA ATGATTTAAA AGTAAA 276

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SEQ ID NO:2899
 SEQUENCE LENGTH:274
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03441

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EP 0 679 716 A1

SEQUENCE DESCRIPTION:

GATCAGTGTT ATATTTTACT GGAGAAGCTA TTGAAGATGA TGATGATGAT TATAATGAAG 60
 AAGGTGAAGA AGCGGATGAG GTAATGTTTA CCAAATAAGC AAATAATTCT NTGTGGTTAA 120
 CACATTGAGA AGCAAATTGA ATNACTTATG TATTCCTTTG CTATAATCAT TCTGTGATTT 180
 GGGATAAAAA CATTTTGGAA AACATGATTT TAGAATTCTA CAGCCAAACA ATGTATGTAT 240
 AAGGTTTCAA TAAATAANTT GCAAAACTCA GAAA 274

SEQ ID NO:2900

SEQUENCE LENGTH:273

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03442

SEQUENCE DESCRIPTION:

GATCCCCACC TGCCATCCTA TAGTGTGTG TTCCTGTGTG TTCCGGGGCT TCTGGGCAGC 60
 TGGGCCTGCC CGGGGAAGTC CTTGCAGGTG GGAGGCCATA CAGAGACCCA CTGTGTGCCA 120
 CTGAGCGTCC CACTGCTGCT GGGCAACTGG AGGACTGCAG GGGGCGCCAG GTGACTCTCT 180
 CCTTTTATAT CACAGCAGCT CCTGTGCTGA CTTCAAGTT ACGTTTTGGA ACTGTAATAC 240
 TAAAGGAAGA AATAAACTAC TAATTTGTAT AAA 273

SEQ ID NO:2901

SEQUENCE LENGTH:359

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03443

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTTGTGTAG TAAAGCATTG GGAGGGTCAT TCTTGTGACA AAAGTGCCAC 60
 TAAACAGCC TNCGGAGAAT NNNTGACTTG CTTTCTAAA TCTNAGGTTT ATCTGGGCTC 120
 TATCATATAG ACAGGCTTCT NATAGTTTGC AACTGTAAGC AGAAACCTAC ATATAGTTAA 180
 AATCCTGGTC TTTCTTGGTA AACAGNTTTT AAATGTCTGA TATAAACAT GCCACAGGCG 240
 AATTCGGGGA TTTNAGTTTC TCTGAATAGC ATATATNTGA TGCATCGGAT AGGTCATTAT 300
 GATTTTNNNC CATTTGCGCT TCATAATGNA AACCAGTTCA TTTTACCTAT CAGGTTATN 359

SEQ ID NO:2902

SEQUENCE LENGTH:268

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03444

SEQUENCE DESCRIPTION:

GATCAGAGCA CAGTTGAAAT TCATGGAAGT GGCATTATTT AAGCAACCAG AATTCCACAC 60
 TGTAGGAAGG TTTTGAAAAT TGTTTCGTGA TAGATTTTAT CTTATCTTTT GGTGTTGTCT 120
 TGGTTTTTCT CATAGACTTT ATAAGTTTGA ACTGGACTTA TTTGATTATA ACCACAAATT 180
 GTGTGTGTGT GTGTGTGTGT ATATATAGAA GTCATTATGG CAGATGCACA AATTGTGCAG 240
 TGATGTAAAT ATACATACTT CACAGAAA 268

SEQ ID NO:2903

SEQUENCE LENGTH:264

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03445

SEQUENCE DESCRIPTION:

GATCGGTAGT GTTGTGTGTA GGCCATTCTT CTGGAGAGCC ACAAGCAGGA AGAGCAGCGC 60
 TGTGTTGCAG AATGGAGTTC CATGGATTTC TACCAGACCA CTGAAGGAGT TCCTNGAAGC 120
 CCTGCGGTAG CTAGCACTGA AGACTATTTT NCTATTGGTA TAACCGCCCC ACCTGAAGGG 180
 GAAAGGGGAA ATCAANTTAA TTTTCTCGTT AGACATANGG AAATTTAAGG AAAAACAGNT 240
 TTAGGANCAG TTAICTAGCG TAGN 264

SEQ ID NO:2904

SEQUENCE LENGTH:258

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03446

SEQUENCE DESCRIPTION:

GATCCATAGT GAAATTGCCA GAGTTTTGCC TGCTGCTTTC CTCGTGGCCT CTTCTTGGGT 60
 AGTGAAATNA AGTGACATTT GGATTTTAAT TTGGGTGGGA GGGCTGGGAC AGTTTTNTT 120
 CTAGAAATGT CTGTTGAGAT TTCCCCCTTT AGTTTCCAAC CTTCTCCCCA ACCCTTGGAG 180
 CTAAATGCGT TGTAATAATAT TGCCAAAATG AAAAGTGTTT TGTAATACTG CAATAAAGGC 240
 TGCTTGTTTT TGTGGAAA 258

SEQ ID NO:2905

SEQUENCE LENGTH:264

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03447

SEQUENCE DESCRIPTION:

GATCGGACAT GAAAGNACCC TGNGAGTCGA TTGTCCTANC TCCAGCGGCC CTGTCATCCA 60
 GCTCACTCAT CAATGGGGCC AGTCAGGCC AGGCACTGGG CTCGGGAGGA CTCACCACTG 120
 CCCCCTGCTG CCATGTGGAC TGGTGCAAGT TGAGGACTTC TTGCTGGTCT AGTCACGCAT 180
 GCAGTGTGG GGGATGCCTT GGTTTTTACT GCTCTGAGAA TTGGTTGAGA TACTTTTACT 240
 AATNAACTG TGTAGGTTGG GAAA 264

SEQ ID NO:2906

SEQUENCE LENGTH:257

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03448

SEQUENCE DESCRIPTION:

GATCTGCTTT CAACACTTTT AGCTCTTCTA GAATTCAGA AAAATGGTAT CGGATGTACA 60
 GCATGGACCC TTCNTGGTG GGCTTCTTTA CTGTAATGCT TTAAANATTC ATCTGTGCTG 120
 TTNAGTGTCT CTGCAGTCCA TTCCTTCTGT TGAGTGTATC AGTAGTCCAT TCCTTTTCAT 180
 GGCTGAGTAG TATTCATTG TATAATTATA CCACTATTTG TNCATTTACT AGATAATANN 240

CAGTTGGCTT GTTTAAA

257

SEQ ID NO:2907

SEQUENCE LENGTH:256

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03449

SEQUENCE DESCRIPTION:

GATCCATCCG CCTTGGCCTC CCAAAGTGCT GAGATGACAG GCATGAGCCA CTGCACCCGG 60
 CCATATAATC AAATTTTAT TGATTTTAGA GCAAAGGACT TTTCAATGT AACTGCTTAG 120
 AAATCGAGCA ATTTTCTATT GTATAGAGTG AAAGTCAAAC TTGTTTATTG TACAAGTCTT 180
 TAAAGGATA GTTAGGAGTA AGTTGTATTT GCTGAATATA TAGACCTCAT TTGTAGCCAT 240
 TAGTGATTCT GTATTN 256

SEQ ID NO:2908

SEQUENCE LENGTH:256

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03450

SEQUENCE DESCRIPTION:

GATCTAATTA AAAAAAGGC AATATTTTA TATTAAAGTA CTATACTAGG AGAGAATGTT 60
 TCANAATCC CTGATGAATT TCTAAGTGAG CAACTTGATA TAAAATTGTA ATCTTCATT 120
 TTGTCAGTGT ATCCAGTTAC AGAATGCTAC ACACTTACCT TTTTATTGGC TGAGAAATCT 180
 GGTTATTCA TCTTAATCTC AAGATTGTTT TCAAGTGTTT TATAATTAAA TCATAATAGC 240
 ATATTTTAAA ATCAAA 256

SEQ ID NO:2909

SEQUENCE LENGTH:255

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03451

SEQUENCE DESCRIPTION:

GATCAAACCA GCTCTTNTNA CCCAAACCAN TGCCGCTGCA TTAAAGGGAG GCCCAGCTAC 60
 TCCTTCCCAG CTGAGATGTG GGTACAGGTC AGATTNTCA GGGAGATGGC ACTAACACGA 120
 CACAAGCTCA CTCCCAGAAC CGCAGCTGAT GTTTATAATA ATCGTATGTA CTGTGCAATT 180
 TAGGAGGGGA AAAAAAGGCT GTACAAGCTT TAACTCTAAA NNAAATNTCT ATTTTTTNCC 240
 TCTTGCAAAN TTAAA 255

SEQ ID NO:2910

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03452

SEQUENCE DESCRIPTION:

GATCTGCCCT GTACAGCCAT GTAGGCTGTG CGCTGCATAA CTCCAGGGAC ATGAGTCACA 60

CAGACACAAT GTGAGTGTGC TCCCCCGTCA TGCAACATCT GGACACAAC AACAGAGCAT 120
 GGTGAATACA TGCTGAATTG CATTGAGTAT GGCTGTGAAC TAGGCCTGGG GACAAGANTG 180
 ANTTTACAT GGAAAGAATT TCCTGTAGCA GGAACAGAGG GGATAACAAC AGCAGTAAAT 240
 AATAATAAGN CAAA 254

SEQ ID NO:2911

SEQUENCE LENGTH:253

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03453

SEQUENCE DESCRIPTION:

GATCCCCCAC TAGTNCCTC CCTCTNCCC TGTAATCCTG GTCTAATAAC CCCCCACACA 60
 TACACCTCTG GTGACCTATT TGCACAGACC GTNGTCTTCC CTCCAGTNTT CTNAGGGATA 120
 GGGGACATTC CATCCCAAGC TTCTNCCTTA CCCACACCTA TCCTTTTNA GGGCTTTGGG 180
 GTGGGGCTGG GGCAAGCAGA GGGACTGGGT CTTCACTTCT NGGGCTAATA AAATTGTTT 240
 TTTGTGGACT AAA 253

SEQ ID NO:2912

SEQUENCE LENGTH:253

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03454

SEQUENCE DESCRIPTION:

GATCAACCG GTTCTNTCTT TTCTTGTTT GCCATGTTAC TATGCCTCAA GCCCAGTTN 60
 CTTTNTCCGC AGCGATGGG CCAGTCTCAT TCCTCCCAG GAGTGAACT NGCTTCANCT 120
 GAAAAGTTG GGTGCATTGT CAGTAAAAAG GGCTTATTG TTTCATTNA CTTTCCTGCA 180
 AAATTTCTT CAAAGCAACA AGTCCTAGGN GCACACAAAG CAACCCAAAG GCTTTCCCT 240
 GGAAAAGCTC TTN 253

SEQ ID NO:2913

SEQUENCE LENGTH:254

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03455

SEQUENCE DESCRIPTION:

GATCCGGGGC ATGCAGAAGC TGAGCACACC CCAGAAGAAG TNAGGGTCCC CGACCCAGGA 60
 GAACGGTGGC TCCCACAGGA CAATCGCTGC CCCCCAACCT CGTAGCAACA GCAATACCGG 120
 GGGACCCTGG CGGCCAGGCC TGGTGCCATG AGCAGGGCTC CTCGTGCCCC TGGCCAGGG 180
 GTCTCTTCCC CTGCCCCNTC AGTTTTNCAC TTTTGGGGTT TTTTATTGNT ATTAACTGA 240
 TGGGNCTTN TAA 254

SEQ ID NO:2914

SEQUENCE LENGTH:249

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03456

SEQUENCE DESCRIPTION:

GATCCTTGTT TTGTTGTCAT GGAAACTTCG GGGCTGGTGG GACTTAGGCC AAAAGCTCAG 60
 AGGCACAGCC AAAATTTAGA AGCTTGCTAC TCCTACGACT CGGCCTATAA GGAAGAGAGA 120
 AGCTGTCTGT ACTTTGGGGA CTACATTGCT GAAGGAAAAA AATCACTCCC TGGCTAATTA 180
 AGATTGCTTC CAAATTGGGG GAATGTGTGT CATTTCTTTT ACCAAGGCCA GTCATCCCTG 240
 CTTCCACCN 249

SEQ ID NO:2915

SEQUENCE LENGTH:249

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03457

SEQUENCE DESCRIPTION:

GATCCAGGCC GGGCCTATAC AGAGGTGCTG GCTGCTTGTT TACATTCTCC TCTGGGGCTC 60
 TACCTCTCCA CACTTCCCA GAAGGGAAAA GGGCACCCTG GATTACTNNN TTGGAAATNA 120
 CTCCTTGCTG GGCAGCATCC TGAGGGTTCC CCAGAACCAG GCCTCTGCTC TGGCCCTCTT 180
 GCATCTGGAA CGCCAGGTGG GTTTTNTGG CATAGGAGCC CACTTGCATT TTCATAGTTT 240
 TATTTGATN 249

SEQ ID NO:2916

SEQUENCE LENGTH:249

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03458

SEQUENCE DESCRIPTION:

GATCACAGCC TCCAGGGCCC CCCAAATCCC AGGGAAGGAC TTGGAGAGAA TCATGCTGTT 60
 GCATTAGAA CTNCTNCTT TGCACAGGAA AGAGTCACAC AATTAATCAA CATGTATATN 120
 TCCNCTATAC ATAGAGCTCT ATTNCNCTNC GGTTTTATAA AAGCCTTGGG TTCCAACCAG 180
 GCAGTAGATG TNCTTCTGAN CCGCAAGGNG CAAACACTGA AATAAAATAG TTTATTTTNC 240
 ACACTCAA 249

SEQ ID NO:2917

SEQUENCE LENGTH:249

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03459

SEQUENCE DESCRIPTION:

GATCTCCTTT TGTGAAAACC AGTTTGATGT GCTAAAAGTA AAAAGTCTAN TTTCCAGTGT 60
 GGTCTTGTTT AGAAGCAGCC AGATTCCAA TGTTGTTTTT CCCCTCCACT CAGAAACCCC 120
 TGCCCTTTCC CTTCAGAAAA CGATGGCAGG CATTCTCTG AGTTTACAAG CAGAGACTCA 180
 CTCCAACCCA AACTAGCTGG GAGTTCAGAA CCCATGGTTG GAATAAAGAA ATTGTGCGTC 240
 TTGGTCAA 249

SEQ ID NO:2918

SEQUENCE LENGTH:245

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03460

SEQUENCE DESCRIPTION:

GATCTATCCC TCGGNCCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60
GCCTAGCGGA NCCAGCCTGG GAGCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120
AGCTCCTGCC ACATGGAGNC CCCTCTGCCG GTCGGGCAGC CAGCAGAGGG GGAGTAGCCA 180
AGCTNCTTAA TCCTNAGCCT NCCCCTGTGT ATTCACCACC AATAAATCAG ACCATGAAAA 240
CCAAA 245

SEQ ID NO:2919

SEQUENCE LENGTH:384

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03461

SEQUENCE DESCRIPTION:

GATCAGGAAA CCAGAAATAC CACATTTATG GACCATGAAN GGTGGTTCT TGA CTCTGAA 60
GGGACTTTTG AGTTAATCAG CGTAAGGGGA TTTCTAAAGC AGGCAATCCC TG TAGCCGCA 120
GAGAATAAAC GCCTTCCCAA AATGGNAACT NCCCACAGCC ACATTCAGA CCTGCTGAGA 180
CTGCTGAGTG AGGAATGGCA GTGAGGTTTC TTCAATNAGT CTCAGTTCTC TTAATTTTCA 240
GGAAGAAAGG GTAATTGCAG CCCCTCAGCC CCCAGGATTG ACCTCTNGGG AGNCATGGTA 300
GCGTTGTGTG CCAGGCCGTN GGTTCAGGTG TTNGCAGAAG CTTTCAGATT CGTCCGAAGG 360
GAAATAAAGT GTGTTGGCGT TAAA 384

SEQ ID NO:2920

SEQUENCE LENGTH:240

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03462

SEQUENCE DESCRIPTION:

GATCCCAGCA GCCCTCCCTT CACCGTGACC CCTGACCTTT GTTAGGAAGG TGCAGTTTTT 60
NTTCTCAATC TAAATNCCTT TNAGGTGGGC CGCTTCCTTG GCTACCTGGT TCCAGGGGGC 120
TGTTTTGTAA TNAGATGCTG CTGGCAGGCC ACTCAGAGGC TCCCAGCTGG GTTGGTGGGA 180
CAGCCAGGCC AGATGACCTG ATTCCAGCAA AAATAAACT CAGATTTGGG CAAAATGAAA 240

SEQ ID NO:2921

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03463

SEQUENCE DESCRIPTION:

GATCCCTAGC AGCTCATCCT GCCCTTTGAA TACCCTCACT TTCCAGGCCT GGCTCAGAAT 60
CTAACCTATT TATTGACTGT CCTGAGGGCC TTGAAAACAG GCCGAACCTG GAGGGCCTGG 120
ATTTNTTTTT GGGCTGGAAT GCTGCCCTGA GGGTGGGGCT GGCTCTTACT CAGGAACTG 180

CTGTGCCCAA CCCATGGACA GGCCAGCTG GGGCCACAT GGTGACACAG ACTCACTN 238

SEQ ID NO:2922

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03464

SEQUENCE DESCRIPTION:

GATCACCGGT TTCCGACTGA GTCTGGGGAT TTTGGCCTTG TTGACCCCTC TAGGTGCCCT 60
GGGAATTGCA AACAGCTTTC TGGATGAATA TCTGGACCTC AATATTGCCA AGAACTGAG 120
GCGGCAATTC TAACTTTTTC TCTCCCTTT AATGCTTGCA GAAGCTGTTT CCACCATGAA 180
GGTAATATGG TATCATTTGT TAAATAAAAA TAAAGTCTTT ATTCTGTTTT TCTTGAAA 238

SEQ ID NO:2923

SEQUENCE LENGTH:238

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03465

SEQUENCE DESCRIPTION:

GATCTACTGT GTGGTGTCTG GGCAGATGAA AGTACACTGC TTAGNGTGAT GCTTAGCATG 60
GGGCAGATGC TTGGTAAATT GTAATCACTT TTGTTGTGAG TTAATGGAT ATTTCACTGT 120
TGCTCTNAA ACGCTTACGG TAATATATAC TAATTATACA TGTTATTATC AGTTTATATT 180
TATTGAACAT TTCGGGGAAG TAATTATAAA ATAATCTTGT CTACTGTCTT ACCCCAAA 238

SEQ ID NO:2924

SEQUENCE LENGTH:347

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03466

SEQUENCE DESCRIPTION:

GATCTATGGT GCAGACTGCC TTCGTCGGGT GCAGACTGAG CGACCGNAGC CCCAGACACT 60
ACAGCTGGAT TNCTTGATGA AAATCTTGCC AAATTACCAC CACCTAAAGA AGACTATGNA 120
AGGAAGCTCA ACTCCAGTAA AGAACTAAGA ACAGTGTATA ACATGAAGAT AACATTTTGT 180
CTTTGACCAC TGTCTTTTGA ATGGGCCCAC AGTGTATTAT TACTCTTAAC AACTCACAGA 240
ATAATACATG TTCACCTTAT TTTGTAAAA TGGGTTGAGA GGAACTAAT GGAGTTTCAT 300
TGTAACCTGC CTTNTAATT TATATAAATG TATTATTNTC CTATAAA 347

SEQ ID NO:2925

SEQUENCE LENGTH:236

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03467

SEQUENCE DESCRIPTION:

GATCCTGTGA TATGGTTTTN GGCCAGCAA ATCTAGGAGA AGATGCAATT AAAAATTCA 60
GAGCAAAACA TCACTGTAAT TTTGCTGTA GAAAGCTTAA ACTTCCAGGT AAAAAATTT 120

TTAATCAGTA TAGTATATAA TTNGTTACGA AACTNGGTTA CTACAATACC TCATAAGGCC 180
AGAGGTACAA NTGTTTAATG TAATGGTCTC TAATTGTGCC AGCTTCAGCA GCTCTN 236

5 SEQ ID NO:2926
SEQUENCE LENGTH:271
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03468
10 SEQUENCE DESCRIPTION:
GATCCCGCAT GCCTGAATTC ACTAAAGCCA AGGGTCTNTA AGCCACGCTN NNTCTTCTGA 60
GACTTCCATT CCTTTCTGAT TGGCACACGT GCAGTCATG ACAATCTGTA GGATAACAAT 120
CAGTGTGGAT TTCCACTCTT TTCAGTCCTT CATGTTAAAG ATTAGACAC CACATACAAC 180
15 TGGTAAAGGA CGTTTCTTG AGAGTTTAA CTATATGTAA ACATTGTATA ATGATATGGA 240
ATAAAATGCA CATTGTAGGA CATTTTCTAA A 271

20 SEQ ID NO:2927
SEQUENCE LENGTH:235
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03469
SEQUENCE DESCRIPTION:
25 GATCTAAAAT GTTTATTCCT TCTGTAGTGT ATTAATCTCT GTGTGTTTTT TTTGGTTTTG 60
GAGGAGGGGT ATGAAGTATC TTTGACATGG TGCCTTAGGA ATGACTTGGG TTTAACAAGC 120
TGTCTACTGG ACAATCTTAT GTTCCAAGA GAACTAAAGC TGGAGAGACC TGACCCTTCT 180
CTCACTTCTA AATTAATGGT AAAATAAAAT GCCTCAGCTA TGTAGCAAAG GGAAA 235

30 SEQ ID NO:2928
SEQUENCE LENGTH:234
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03470
35 SEQUENCE DESCRIPTION:
GATCCATCTN CCCTCATAAA AGTGTTTCAGG TACAGCAGCT GAGGCTGCCC TGAGGAATCA 60
NGGGGCCATT ACCAAGGGGC AGGTAAAGG TATNTAAGAG GTGGCCTTCA TGGTAGAGCT 120
TGACCCAAGA NCTACTCCAC ATTCGGNTNG CCCAGACTGA CTCCATCCCC TGANTTTCCC 180
40 TTNGACTTCA CCCTGTTTGT AAATAAAACA NTAAATGGA AGGTGCTNTG GAAA 234

45 SEQ ID NO:2929
SEQUENCE LENGTH:233
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03471
SEQUENCE DESCRIPTION:
50 GATCTCAAAAT CCTGGAACCC CGATTTCAAT CTACGTTCTA GTCAGTGGCC TCAAAGGACC 60
CCACAGCACC TGGGCCAGAC CAACAGCTCG AGGGAGAACC TGAAGGCCCA GGGGGTCCAG 120

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GGCGGACCTG GGGCCCCGAC CACCAAGGAC AGCTCAGCAG TGCCCCCTTNA CTGCATGTCC 180
 CCAAACCTNAG CATGACTCCT GTCCTCTTCA ATAAAGACGT TTCTATGGCC AAA 233

5 SEQ ID NO:2930

SEQUENCE LENGTH:231

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

10 CLONE:HUMGS03472

SEQUENCE DESCRIPTION:

GATCAGCAGA AAGCACAAAC ACAACTGCTT CTGTATTCAG GAGGTTGTGA GTGGGCTGCG 60

GCANCCGTTG GTGCCCTGCA TAGTGGGGAT GGCTCGCAAC GTCTCTTCAT TCTGGAAAAA 120

GAAGGTTATG TGAAGATACT TACCCCTGAA GGAGAAATTT TCAAGGAGCC TTATTGGAC 180

15 ATTCACAAAC TTGTTCAAAG TGAATAAAG GTTGGCTTTT TAAATTTTAA A 231

SEQ ID NO:2931

SEQUENCE LENGTH:231

SEQUENCE TYPE:nucleic acid

20 TOPOLOGY:linear

CLONE:HUMGS03473

SEQUENCE DESCRIPTION:

GATCAGCAAA AATAAAGGGG CTACAGAAAC ACTCATTTTT ATGCTGTTCC CTCTTGGGCT 60

25 TCATGCAAAG ACAATTCNT GTAAATNTAC AGTTGACTCT GATTGGAAA TATGAAAATC 120

AGTCCATCCT TGTATAAAA AATTTTTTA CAATTGTAAT TATATTGATG TTCATATTGT 180

GTAATAAATC TCATTTAATA AAATAGTACT TTGATTACG ACATCAATAA A 231

SEQ ID NO:2932

30 SEQUENCE LENGTH:230

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03474

35 SEQUENCE DESCRIPTION:

GATCCCACCC CCAGCCATTT GCATTGCTGG CCCAGCGCCT GGCTTGGGGG GCGGGGAGAG 60

GCAGCAGAAG GGGCTGGGCA GGGGCGGTGG AGGACTCAGG AACTNCCCGG GGAGAGTGGG 120

TATGGCGGCT GAGCCAGGN CCCTCCTGTN TTNACTTCC CGGGATGGGT CCTTGCTTNN 180

40 AAGCTGTNTC CGACCCACC ATNTAATAAA ACCCAAAGGA ACAGCCCAA 230

SEQ ID NO:2933

SEQUENCE LENGTH:328

SEQUENCE TYPE:nucleic acid

45 TOPOLOGY:linear

CLONE:HUMGS03476

SEQUENCE DESCRIPTION:

GATCAGCCGG AAACCCCTGG CAGCCAAGAA CAGATAAGGA AGGGATTGGC ATCGGCTGGC 60

CTTCAGCAC CTTCTCTC CAACACTTCA TTCTCTCTG CCCTGTNTCT CAAATAAACC 120

50 CAATGCTGCG TGTGAGGCT TTTTATTTT TCTTTTCACT CTCTTTCTAA TGCTTCCAC 180

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CTTACCTTTT AGATTCTTTT GCTAGGTGGG AGATTGTTAT AAGGTCTTTA AACCATTTC 240
 ATTTGTTTCT TTAACATTAC CAAAAGCAGG GNACAAAGCT CTTATTCAAC TCGNATTCC 300
 ATAGNGGGCT CTGGNTTNTT CTTGAATN 328

SEQ ID NO:2934

SEQUENCE LENGTH:220

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03477

SEQUENCE DESCRIPTION:

GATCTTGCCC GGTGTCTGG TCCTCTTGCT TCCGTCGCGG CCGCATGTGC GTGTGTCCAA 60
 GCAGGTCCTG GCGGCCTCAA CTGCTGCCCC TGGTTGAATG TTCTCTTGAT AGTGCTGGAC 120
 CCTTTGTCTA TTTNAAAGCG AATTTTGTGT GATTTCCTGC CCTTTGCGTT ATATTGTATA 180
 ATACCAACGT AAGGAAATAA ACCTTTGGAA TTGTTGAAA 220

SEQ ID NO:2935

SEQUENCE LENGTH:219

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03478

SEQUENCE DESCRIPTION:

GATCCGAGGG CGATGGGACA GTGCACCGCA GATAGAAGAG GAGGACGTGC AGCATGTTGG 60
 GAAACGGGGA CACCACCTCC CAGGACGACT GTTTCAGCAA AGAGCGCANT GCTCCAGGTG 120
 ACCCAGCAAG GCTGTTGTNT GTATGGAAGG ACACGCTCGC GGCAAGGGCA GGGCCTGGGN 180
 AGGGTGGCCT GTCCAGTCCT NNAGACAAGG GGAGGCCTN 219

SEQ ID NO:2936

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03479

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGAGGAGT TCGAGACCAG TCTGGCCAAC ATGGTGAGAC CCCATCTCTA 60
 CTAATACTAC AAAATTAACC AGGTGTGGTG ATGCATGCCT TTNACTCGGG AGGCTGAAGC 120
 AGAAGAATCG CTAAACTCG GGAGGCGGAG GTTGCAGTGA GTCCAGATTG TGCCATTGCA 180
 TTCCAGCCTG GACAAGAGGA GCAACACTCT GTCTCAA 218

SEQ ID NO:2937

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03480

SEQUENCE DESCRIPTION:

GATCATGCCT GCGTGACAAA GCCTCCAGAA AAATCCTTGA AAGACAGGAC ATGGAGAGCT 60
 GCTGGGTTGG CGAACACATC CATGTGCCGG GAGGATGGTG CACCCCAACT CCACAAGGAC 120

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CCTTCCAGAC CTCACCTGT GTATNTCTTC ATCNNNTGT TCATTGTAT CCTTAAAAAT 180
ATCCCCTGTA ATAAATCAGC AATAGTAAGT AAATAAA 218

SEQ ID NO:2938

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03481

SEQUENCE DESCRIPTION:

GATCTAAACA GTGAATAGTA CATGCAAAGG CATAGTCTAG AGGATAAAAG TGAAAATAAT 60
TAGTAGCAAA ATNAATGCCT TGTGGATGAG GTTAGGGGC CAATAACTAT CTTGAGGTAA 120
GGCCAGGTTG TGGCTGCCTT TGTGTTGTAC TAAGGGGTTT GGACCTTCCT AGGAGATTAG 180
AGCTTNATTA AAGTCACAAC ATCCATAAGN GAAATAAA 218

SEQ ID NO:2939

SEQUENCE LENGTH:218

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03482

SEQUENCE DESCRIPTION:

GATCCCTTTG CTGTGAGGGT AGAAAACCTC ACCAACTGCA CCAGTGAGGA AGAAGACTGC 60
GTGGATTTCAT GGGGAGCCTC ACAGCAGCCA CGCAGCAGGC TCTGGGTGGG GCTGCCGTTA 120
AGGACGTTCT TTCCTTACTG GTGCTGATAA CAACAGGGAA CCGTGCACTG TGCATTTTAA 180
GACCTGGCCT GGAATAAATA CGTTTGTCT TTCCCAA 218

SEQ ID NO:2940

SEQUENCE LENGTH:216

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03483

SEQUENCE DESCRIPTION:

GATCTTAGAT TTGATGAAGC ACAGTATGCA GGTAGGCCTA ATGGGGGAAG ATGGTAATAT 60
AAAAGCAAGA AGTATTTTTT TTTGNAATG NCTGAAAGCT GTTCTGTGGA TGACCTACCG 120
NTTCCTTTAA ACACGATTCT CTCACTCCA ACTCCAACT TGCTCAACTA ATCCTTAAAA 180
ATAAACTTGA GCTGGAATTT GAGGCTTGCC TGGAAA 216

SEQ ID NO:2941

SEQUENCE LENGTH:213

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03484

SEQUENCE DESCRIPTION:

GATCTCGGGG GTGTGGGGCC CTGTGCCTTC CTGAAGTGCT GGCAGCCCAG TGGCACCTCC 60
TTCAGGCCTT TGGGGTATTC CCTAGTGTG CCCAAGTNAG CCTCATATTC TGGGCGGACA 120
GCTTGTCTGG ACTTCGGAGT TGGGGTGGT CAGACACCAC AGGAGCTGTC ACCTCCTGCG 180

GATGGGCAAA TAAATTNGTG GAGGACNCCG AAA 213

SEQ ID NO:2942

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03485

SEQUENCE DESCRIPTION:

GATCCTCTCC CCTAGTATNT TCAGCACATG CTCACTGTTC TCCCCATCCT TGTCTTCCC 60
 ATGTTTCAATTA ATTCATATTG CCCCGGCGCT AGTCCCATTT TCACCTCCTT TGACGCTCCT 120
 AGTAGTTTTG TTAAGTCTTA CCTGTAAAT TTNGCTTTTA ATTTTGATAC CTCTTTATGA 180
 CTTAACAATA AAAAGGATGT ATGGTTTTNA AA 212

SEQ ID NO:2943

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03486

SEQUENCE DESCRIPTION:

GATCTTTTCA GAGTGGTGT TCTAAAAGAG CATGTACAAA AGTGGCCTGT GGACATTTAG 60
 GCCTAAAGTG ATGCATTTNC TCTTCCTNTT TGTGCAATG TATCAATGA GAGTTGCTCT 120
 GTTTTCTNCA ACTGTATNNA TTGCTGCATT TCTCAGCATA AACTTATCCC ATTGTATTTT 180
 TNATAAATAA ATATTTTTTT TGAACTTTCA AA 212

SEQ ID NO:2944

SEQUENCE LENGTH:212

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03487

SEQUENCE DESCRIPTION:

GATCAAGGAT GAGGATTAGC ATCTGCAAAT TGAACCTCTAT CTAATTTNCA TTTTTATTTT 60
 TTAGAATTGT AATTAAATTT GTGTAATAAA TGTNTTCCAT TTCATTTGTA CACTTAAAC 120
 TTGGGTGACT GAAATGCAGT TAAGTGAATT NCCTTTTNTT AAAAGCAAAT GTAGATTATN 180
 CAATAAAGCA GCAAACCAAT ATTAANCATA AA 212

SEQ ID NO:2945

SEQUENCE LENGTH:211

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03488

SEQUENCE DESCRIPTION:

GATCTATGTA AAAGAATACA ATTCTTTTT ACATAATTAG TGAAATTTTA TTTTTTATTA 60
 GGAAACACTA AATAGTGTA TATTTCTTTT GCTTTTAAAA AAATTCCTGG TAGCAATCA 120
 AGATAAATAA TTGNTTCATT TTCTTGAGCA ATACTGAAGC AGGATGAAGT AAGAGGAATG 180
 CATTCAATTA AACATGCTTT GCTTGNTGAA A 211

SEQ ID NO:2946

SEQUENCE LENGTH:209

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03489

SEQUENCE DESCRIPTION:

GATCAAAGAA CTTTCTTAT AACCTGCAAT CAGCTACTCA GCCAAAAAC AAAACAAAC 60
 CTTGACTGCC TATGGAGGAA GACTGTGTTT GGGGGAGCTG GCATAGCTAG TGCAGAGTTC 120
 AGATTTTCTG CTGATAATCT TTTACACCTT GGGAAAACTT TAATATCCGT ACCTGAAGGN 180
 TGATTACCT AAAATGTGT TAACTGAAA 209

SEQ ID NO:2947

SEQUENCE LENGTH:208

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03490

SEQUENCE DESCRIPTION:

GATCTTCTCT GTGAATCCAC CCCTGGCTAC CCCACCCTG GCTACCCCA CGGCATCCCA 60
 AGGCCAGGTG GGGCCTCAGC TGAGGGAAGG TACGAGCTCC CTGCTGGAGC CTGGGACCCA 120
 TGGCACAGGC CAGGCAGCCC GGAGGCTGGG TGGGGCCTCA GTGGGGGCTG CTGCCTGACC 180
 CCCAGCACAA TAAAAATGAA ACGTGAAA 208

SEQ ID NO:2948

SEQUENCE LENGTH:207

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03491

SEQUENCE DESCRIPTION:

GATCACACTT NGGCCTTCAC TGCAGCGTGG TGTGGCCACC GTCCGTTTCC TCTCGGCCTT 60
 CCTCCGAGTC CAGGTGGACT CTGTGGATGT TTGGATGTGG CCCGAGCAGG CTCAGGCGGC 120
 CCCACTNACC NACAGCATCC GCCGCCACCC CTTGCGGTGT NAGCNCTCAA TAAAAACAAC 180
 ACACTATAAA GTGTTTTTAA ATCCAAA 207

SEQ ID NO:2949

SEQUENCE LENGTH:203

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03492

SEQUENCE DESCRIPTION:

GATCTGAAAA TTCTTGGAAA TTGTTCCATG TGATTAACAT GGAAGTGCCT CTAATAATC 60
 ATTCTGAATN ATTAAATCGT TTCATTTTCT AAATGCNITA TAATGTGTTT AGCCCTTTCT 120
 TGTTGCTGTA TGTTTAGATG CTTTCCAATC TTTTGTTACT ACTAATAATG CTATAAATA 180
 AATATCCTTG TACTTCTTG AAA 203

SEQ ID NO:2950
 SEQUENCE LENGTH:201
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03493
 SEQUENCE DESCRIPTION:
 GATCTTNTCT GTNTGGGTGG GGAGCCGGCC GGCCGTGACC CAACGGCATC CCAAGGCCAG 60
 GTGGGCCCTC AGCTGAGGGA AGGTACGAGC TCCCTGCTGG AGCCTGGGAC CCATGGCACA 120
 GGCCAGGCAG CCCGGAGGCT GGGTGGGGCC TCANTGGGGG CTGCTGCCTG ACCCCCAGCA 180
 CAATAAAANT GAAACGTGAA A 201

SEQ ID NO:2951
 SEQUENCE LENGTH:200
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03494
 SEQUENCE DESCRIPTION:
 GATCGTATAT GTGGGTCCCT TCCCTAGAAG AATGGTTGCT GATATGGCTA CTGCTTCTAC 60
 ATCTNGAGTT TTTNAATTTA CTTTTTTNAC ACTGTAGCAT TGAGACTGCT TGATTCAAGT 120
 CTGGTGCTTT GCCAGATGTA TTAATTNCCA TAAATGCTTT GTGAGTTTGG TTAATGAA 180
 GATTCACTTG GGAAANCAAA 200

SEQ ID NO:2952
 SEQUENCE LENGTH:199
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03495
 SEQUENCE DESCRIPTION:
 GATCACAGCC GGAATGCAGC TGAAAGATTC CCTGGGGCCT GGTTCCAACC GCCCACTGTG 60
 GACTCTAAGG CCTCTGCATT TGTGGGTGGT CTGNCTGTAA TATTTTGGTC ATNGGCTGGT 120
 CTGGTCGGTT TCCCATTTGT NTGGCCAGTC TCTATGTGTC TTAATCCCTT GTCCTTCATT 180
 AAAAGCAAAA CTAAAGAAA 199

SEQ ID NO:2953
 SEQUENCE LENGTH:319
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03496
 SEQUENCE DESCRIPTION:
 GATCTCTAGT TTTNTGGTT TAATTTTNAG TAGCAGGTCA AAAACCTGCC CTCCTGTNAC 60
 TTATTCCTG AGACTTTTCA GGAGAGCCAG CCCACAGATG ATGAAGAAAT GATGGAAGTT 120
 CATTTGGAGA GTCAAATGGG AAAAAACAA ACAAAAACT GCCTTTAATA CAGGCAATTC 180
 AGTGGACTAT AATAATAGTG GAGGGTTGAG ATGTAGAGTT TTTAAAAAGT GAACAGTTGC 240
 TGTTCCTACA TCTNTAANGA AAGCCATAAT GTCTTTAAAT CACTCTTCTG TAAATAGATG 300
 NCCNTTTTGG CAGTGTAAG 319

SEQ ID NO:2954

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03497

SEQUENCE DESCRIPTION:

GATCCTTAAT GCAGAGCTAG AGGACTTCTG GCAGGGAAGT GGGGAAGTGT TCCAGATAGC 60
AGGGCATGAA AACTTAGAGA GGTACAAGTG GCTGAAAATC GAGTTTTTCC TCTGTCTTTA 120
AATTTTATAT GGGCTTTGTT ATCTTCCACT GGAAAAGTGT AATAGCATAC ATCAATGGTG 180
TGTTAAAGCT AAA 193

SEQ ID NO:2955

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03498

SEQUENCE DESCRIPTION:

GATCTGTTTC ATTTATAAAA GGTCCAGTTT TTAGGACTAG TACATTCCTG TTATTTTCTG 60
GGTTTTATCA TTTTGCTTAA AATAGGATAT AAAAGGGACA AAAAATAAGT AGACTGTTTT 120
TATGTGTGAA TTATATTTCT ACTAAATGTT TTTGTATGAC TGTGTTATAC TTGATAATAT 180
ATATATATAT ATN 193

SEQ ID NO:2956

SEQUENCE LENGTH:193

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03499

SEQUENCE DESCRIPTION:

GATCCAAGAA TGTGCCAAGA GTCCCGCCAG CCTCAGCCAG GTGGGCCTGT ATATAGGGTC 60
CATGTGCAAT AGGGAGGGAC GTCTTCTATT TTTNCTGCC CCTCCCCGC CCACTGTCTG 120
GGGCAGGGGG AGAAGGTATT TTCGAGATAA AGCACAGGCA CCACAAATAA AAGTCGTGAA 180
GTTGCCACTC AAA 193

SEQ ID NO:2957

SEQUENCE LENGTH:192

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03500

SEQUENCE DESCRIPTION:

GATCTGGGAG CAAGCTACCA ACAGGGGAGA CTCTTTCCTG TATGGACAGC TGCTGTGGAA 60
ATACTGCCTG CTTCTCCAC CTNCTCANAG CCACAGGAAA GAGGAGGTGA CAGAGAGAGA 120
GCAAGGAAAG TAATGAGGTG GATTGATACT TTCTACTTN CATTAAAAAT ATTTTCTAGC 180
CTGCAGTCTA AA 192

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SEQ ID NO:2958
SEQUENCE LENGTH:190
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03501
SEQUENCE DESCRIPTION:
GATCAGCCTG GGCATCATGG TGGCCTGCAC CTGTAGTCCC AGCTACTCAG GAGGCTGAGG 60
TGGGAGGATA GTTTGACCCC AGAAAGTTGA GGCTGCAGTG AGCCATGAAT GCACCACTAC 120
ACGCCAGCCT GGATGACAGA GCGAAACCCT GTCTCAAAGT AATTAATAAT AATTATATTA 180
ATTCAGCAAA 190

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SEQ ID NO:2959
SEQUENCE LENGTH:190
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03502
SEQUENCE DESCRIPTION:
GATCTGCTTC CCACTGTGAC TGGGCTATGG GATTCTGACT ACCTTGCTTA CAGATTCATG 60
GTTTGATAAA TTTGTTGTAT TCAAAAACCTT GAAATGCAGG ACGCCATTAA GTGTCTGTTT 120
ATATTNTGG AATATTTGTA TTACTTACAA TTAATTAATA AAAGTGGGTT TAAAAAACCT 180
TTCCAGGAAA 190

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SEQ ID NO:2960
SEQUENCE LENGTH:193
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03503
SEQUENCE DESCRIPTION:
GATCTTGCCC CCTTTGACCT TCCCCAAAGG ATGGTCACAC ACCAGCACTT TATACACTTC 60
TGGCTCACAG GAAAGTGTCT GCAGTAGGGN ACCCAGAGTC CCAGGCCCTT GGAGTTGTTT 120
TCGGCAGGGG CCNTNTCTCT CACTGCATTT GGTCAGGGGG GCATGAATAA AGGCTACAGG 180
CTCCAACNTG AAA 193

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SEQ ID NO:2961
SEQUENCE LENGTH:185
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03504
SEQUENCE DESCRIPTION:
GATCAATCTG AAATATCTT AGCCCAGTCA GGGAGCTCTG CTTCTAGAA AGGCATCTTT 60
CGCCAGTGGA TTCGCCTCAA GGTTGAGGCC GCCATTGGAA GATGAAAAAT TGCCTCCCT 120
TGGTGTAGAC AAATANNAGT TCCCATGGT GTTGTGCCT ATAATAAACA CTTTTCTTT 180
TTAAA 185

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SEQ ID NO:2962

SEQUENCE LENGTH:191

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03505

SEQUENCE DESCRIPTION:

GATCCAACGA GGAATATTTT GCCACACGGC AAATATATAC CGTATAATTT TCTGTACCAC 60
 TTGATAGAAA GGTAAAGAAT GAATATTGTT TTTTAAATAA CTTTTTCTT ATATAAGTAA 120
 TATGTGCTTA TCGTGTAAC ACCTAAAAAC ATTGAAAAAT AAAAGGAAAA TAAAATTCAT 180
 ACATAACCAA A 191

SEQ ID NO:2963

SEQUENCE LENGTH:177

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03506

SEQUENCE DESCRIPTION:

GATCAGAAAT GGAGCATGGC CTTGTCCTTT AATGGGGATG CAAATAAAGT TTGTGGGGTT 60
 AAAAGTTATA AGACAGNAGT GATACCCAC TCTCTCCATT ATTGTCCAGC GGGGTGACAT 120
 AATGACAGGT TAAATATTG TGATTCATTG ATTAAATATT ATTTAAAGAA ATGTAAA 177

SEQ ID NO:2964

SEQUENCE LENGTH:176

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03507

SEQUENCE DESCRIPTION:

GATCACAGNG NTGGTGTC AAATNCTATTNN AGGTTTGAAC TCTTGAGCTG GAACCTCAGC 60
 AAACAGAGT ATATATTGTT CAGTATTCT TTGGAACAT TTCATTAATG TACTTGTCTT 120
 ACAGAAATTT CTGAACTTA GTAAAAAAA ATAAAGTTAA ACTTTTAAAA CTCAAA 176

SEQ ID NO:2965

SEQUENCE LENGTH:172

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03508

SEQUENCE DESCRIPTION:

GATCTGAACG ATGCCGTGTC CAGTTTGCGA AGTCCTATTC CCCTCCTCCT GTCGTGTGCC 60
 TTTGTTTCAGG TGGGGATGTA TTTCATGTAG AAGGTGGAAG AAGGCTGCTA TNACTCTTTG 120
 GATGGGAGTC TGGCAAGAGG AAATTGGAAG ATAAATATAA TAATAAGTGA AA 172

SEQ ID NO:2966

SEQUENCE LENGTH:172

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03509

SEQUENCE DESCRIPTION:

GATCTGCTCT GCTGCCCTGA ACTCTTACGG CAATTAGGT TTCTCATTTT NNTTTTCTTT 60
 TTACATATGT ACAAATTGTT TTAAGCTTTG GCCTCTATCC AGGTTATNCT GACAATGAAG 120
 AAATGGGAGT TGTGAGAGCA TTAAGATGCA ATCTTCACTA AAANCAGTGA AA 172

SEQ ID NO:2967

SEQUENCE LENGTH:170

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03510

SEQUENCE DESCRIPTION:

GATCTCTAAT ACAGTATCTA ACACAAAAGA AGCTTTAAAA AGACAGTTTC TTTCCTTATT 60
 TGATTAGCTA GAAGTTTATC TAGGTAAAAG CAAAAAANA ANTTNCAAN GCATANCATA 120
 NCATTGGGGT TCTTTTATA CTCAAGATGT TTANCTGTTC AAANTGNCAN 172

SEQ ID NO:2968

SEQUENCE LENGTH:355

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03511

SEQUENCE DESCRIPTION:

GATCCAGGCG GGAGCAGAAG CTAAAGCCAA AGCCCAAGAG AGTGGCAGTG CCAGCACTGG 60
 TGCCAGTACC AGTACCAATA ACAGTGCCAG TGCCAGTGCC AGCACCAGTG GTGGCTTCAG 120
 TGCTGGTGCC AGCCTGACCG TCACTNTCAC ATTTGGGCTC TTCGCTGGCC TTGGTGGAGC 180
 TGGTGCCAGC ACCANTGGCA GCTCTGGTGC CTGTGGTTTC TCCTACAAGT GAGATTTTAG 240
 ATATTGTAA TCCTGCCAGT TTTTNTTTT TCAAGNCAGG GGTTCATNC TNAGAAAACC 300
 CTACTCNACA CAGCACTTCT TANGGTAGGC CNCTTATTCA ANTCAATT NNAGN 355

SEQ ID NO:2969

SEQUENCE LENGTH:258

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03512

SEQUENCE DESCRIPTION:

GATCTCGGAT GCCATCCCG AGCTGAAGGC CTCCATCAAG AAGGGGAAG ATTCGTGAA 60
 GACCCTGAAG TGAGCCGCTG TGACGGGTGG CCAGTTTCCT TAATTTATGA AGGCATCATG 120
 TCACTGNAAG GCCGTTGCAG NTAACTTTG TATTTNAAT TGCTTTGGTG ATGATTACTG 180
 TTTTGACATC NTCATGCCTT CCAAATTGTG GGTGGCTCTG TGGGCGCATN ANTANAGCC 240
 GTCCTTGATT TTGGGAAA 258

SEQ ID NO:2970

SEQUENCE LENGTH:81

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03513

SEQUENCE DESCRIPTION:

GATCACAAGA GGGCCATTG TAGTGGCTGG TTGACAACGG CTGGNGCAAA TTAAATAAAT 60
 AAAATAGCTC TNTCTTTCAA A 81

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SEQ ID NO:2971

SEQUENCE LENGTH:169

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS03514

SEQUENCE DESCRIPTION:

GATCTNAGAC ATCCCCATCT TTGTAAGCAG AACAGTACGG CACTTCACCA CATCTNCTTC 60
 CCACCATGCT TCTAAGCAGC TGTNTTCCCC CTGCTAATGT TACAACCAAA GCAGCCACCC 120
 CACCTCCTNT NGTGTGAGC CTCACGACCT NTGACCCAGC TGGAAAGCN 169

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SEQ ID NO:2972

SEQUENCE LENGTH:168

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS03515

SEQUENCE DESCRIPTION:

GATCTCATTG CTGCTTTTCT TTTATGTCCT TTTGTCTCCA TGGGAGGTTG AGCTTCTTTT 60
 CCTACAAGTT TACTTACTGT TTGCATTAC TTTTCTTTG CATTGTCTGT TCCAGTCCTC 120
 TGGCTATTG ACTATTGTGT AATAAAAGGA CCAAAAACAA ATGTGGTN 168

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SEQ ID NO:2973

SEQUENCE LENGTH:225

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS03516

SEQUENCE DESCRIPTION:

GATCTTGCTG CAGCCACAGT GCAGNTCCAC ATTAAGTCTA CAGACCAAAC CATTGTATC 60
 TGGCATCACT TACTAACACA CGNCATGCGG CTTTTCTGCA TCAACTGCTA TGACGGTTAA 120
 GANTGTCACT ATACAAGNAG GGATAGAAAA CTGGTACTGT TTAAATAAT CTGTAATNTC 180
 AATGTTTTTT TTTTNTTTC GGAAANNCNT NGTTTGTCCC GNTTN 225

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SEQ ID NO:2974

SEQUENCE LENGTH:169

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS03517

SEQUENCE DESCRIPTION:

GATCTTCTGT GGTGCTTAAG GNAAGTACT AGAGCTCCAC TAACAGTCTC ATAAGGAGGC 60
 AGCCATCATA ACCATTGAAT AGCATGCAAG GGTAAGAATG AGTTTTTANC TGCTTTGTAN 120
 GCAAATGGNA AAGGTCAATA AAGNTATATT TCTTTAGNAA ATGGGCAAA 169

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5 SEQ ID NO:2975
 SEQUENCE LENGTH:167
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03518
 SEQUENCE DESCRIPTION:
 GATCCCAACT CCCATGACCT CTGGCTTCAG TGGTGGGTGG GGCAGGGCAG ATGAAAGGGC 60
 TTCAGTGGGA ACCTCTGAGA GCATTTTCCT GTTCCCCCTA TCAACCGCCC CCAGTGATAA 120
 CATCTGTGAA GCCAGCCATT ACTCAATAAA CTGCAAACCT GTCTAAA 167

15 SEQ ID NO:2976
 SEQUENCE LENGTH:167
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03519
 SEQUENCE DESCRIPTION:
 GATCAGNAGC CCACTGATAA GGGGCCCTAG GGTACAGGGT GCTGCCCAGC AGGTCGCCAC 60
 CGAGTGTCTT CTCATTTTAT TTCAGTCCA TTTTGGCCAT AGATGGGCAG AGGGGTGAGA 120
 TTGGCTCATC CCCCTTCAG ATTCTGCAAT AAAGCGGTGT GAGGAAA 167

25 SEQ ID NO:2977
 SEQUENCE LENGTH:167
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03520
 SEQUENCE DESCRIPTION:
 GATCATTCCC TCTTTTNGGA TGTATAAGAN CCTCCGGAC AACAGAACCT ATTTNTGGAA 60
 TTGCAGAAGA TAACATATTT CCCTTATTN NATTTAATCA CCATAAACCA TACCTATTTA 120
 ATGAGTGTAT TCTGTGCAAT TTTTCCTCA GATTGTNTTT AACTNNN 167

35 SEQ ID NO:2978
 SEQUENCE LENGTH:166
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03521
 SEQUENCE DESCRIPTION:
 GATCGACTGC CAAGCAGCAG CCGCTGCCGA GGGGCTGCGT CTGACATCCT GACCTCCTGG 60
 ACTGTAGGAC TATATAAAGT ACTACTGTAG AACTGCAATT NCCATTCTTT TAAATGGGTG 120
 AAAAATGGTA ATATAACANT ATATGATATA TAANCCTTAA ATGAAA 166

45 SEQ ID NO:2979
 SEQUENCE LENGTH:165
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03522

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EP 0 679 716 A1

SEQUENCE DESCRIPTION:

5 GATCTGGGCG GGGTGGTGGC CTCCTCAGGG CGGATGCCAC CGGGTTCCCC AGGGGAATAC 60
ATGTCCCCAG CTCTGGGAGG GGTTCGTAC TGGCCTCCTA CTTTCCTCCC TAGGTGGACA 120
GTGCTCCTCT AGAGAGCTGC GACTTTAATT AAAACAACA GGAAA 165

SEQ ID NO:2980

SEQUENCE LENGTH:165

10 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03523

SEQUENCE DESCRIPTION:

15 GATCAGTGTC AGATATTGTT GAGGGAAGTA ATTTTATAAA GTTACACAAA GGTAGTTATA 60
AAAAAAGCCC AGTTTGTTC TCAGAAGGTG ACTTTNATGT GCTTGAAAAG TTAAATATTT 120
GANTATTGTG TTAAACCACA TGGTATTAAA ATTTTGCAAT ATAAA 165

SEQ ID NO:2981

SEQUENCE LENGTH:163

20 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03524

SEQUENCE DESCRIPTION:

25 GATCATGAAA TAATGTGCTT TGTAAGAAGA TTTCAAGTTA TTAGGAAGCA TACTCTGTTT 60
TTNAATCATG TATAATATTC CATGATACTT TTATAGAACA ATTCTGGCTT CAGGAAAGTC 120
TAGAAGCAAT ATTTCTTCAA ATAAAAGGTG TTAAACTTT AAA 163

SEQ ID NO:2982

30 SEQUENCE LENGTH:162

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03525

SEQUENCE DESCRIPTION:

35 GATCCGCCTG CTCGGCCTC CCAAAGTNCCT GGGATTATAG GTGTGAGCCA CCCTGCTCAA 60
CCAGGTTTNA TTATTTAANT TAGTTAACT TTGGATAGAT TGTATAATAT ATAGTTTAAT 120
GTAATCATGC TCATATTTT NAAATAAATA AAACACTATA AA 162

40 SEQ ID NO:2983

SEQUENCE LENGTH:161

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

45 CLONE:HUMGS03526

SEQUENCE DESCRIPTION:

50 GATCACTTGT TGTTTACTA AAGAAAGATT ACTTAGAGGA AATAAGAAA ATCATGTTTG 60
CTCTCCCGGT TCTCCAGTG GTTGAGACA CTGGTTTACA CTTTATGCCG GATGTGCTTT 120
TCTCCAATAT CAGTGCTCGA GACACAGTGA AGCAAATTAA A 161

EP 0 679 716 A1

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SEQ ID NO:2984
SEQUENCE LENGTH:161
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03527
SEQUENCE DESCRIPTION:
GATCTGAGGT CTAACATTGT TATCCTATAT CATTTCATC CCAAGTAGTG ATATCTGTGA 60
AATCACAGGT TTGATGTGTG CTAATNATGT ATTCTTCTAA TACATATTAA AAGACATAAC 120
TATCAAAACA AAATAAATTT GTCTGTTTTT AACCAAAGAA A 161

SEQ ID NO:2985
SEQUENCE LENGTH:161
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03528
SEQUENCE DESCRIPTION:
GATCTCCATT TGATATTTTC ATTTGTATAA CTCATTTGCA GTCTGAAAAT TTTTTTAGT 60
GCCAGTCCCT GAACATATCA TTGAAAGTTA ATTTCTTTG CATTTTAAAA TATCTGGATT 120
ATGAAGAAAA AGTGATGAAA ATAAATTAAA ACTGAATTAA A 161

SEQ ID NO:2986
SEQUENCE LENGTH:160
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03529
SEQUENCE DESCRIPTION:
GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGGTT TGAACCGTGA 60
ACAAAACCTGT GTTTTGAGTT TAGCTGACAT TATGAAAAA AGTTCATCAC GTGACTGTTA 120
ATGTAAACCT GGTATTAAA ATAACNATGA AATTACCAAA 160

SEQ ID NO:2987
SEQUENCE LENGTH:157
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03530
SEQUENCE DESCRIPTION:
GATCTCTCTG TNACTGACTT TGTGACTGTC CTGTGTTTTT TCCTGCCATT GCTTTGTGTT 60
TGGAAGGACA TGATGGGGGT GATGGACTGG AAAGAAGGTG CCAAAAGTTC CCTCTGTGTT 120
ACTCCCATTT AGAAAATAAA CACTTTTAAA TNATAAA 157

SEQ ID NO:2988
SEQUENCE LENGTH:157
SEQUENCE TYPE:nucleic acid
TOPOLOGY:linear
CLONE:HUMGS03531

EP 0 679 716 A1

SEQUENCE DESCRIPTION:

GATCAAANCA CCTNGGAGTG GTCACCAGGG GGACAGGGAG CCCCCACCA ATGTATCANT 60
GGGTGATTTA TNATGCCCTT TGCCCTTTGG CGAGTGAATG GNTTCCCAT AGGGGAAGTT 120
GGCCTCCCTC CGTGAGCTTT GGAAATNTTT TCTAATN 157

SEQ ID NO:2989

SEQUENCE LENGTH:157

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03532

SEQUENCE DESCRIPTION:

GATCCGAATG GNCCTGGGTGA GCACGAATTA CCGAGGCCTT CCCTTTGNTA CAGTCCAGGA 60
TTTGTAAGGN ATGAAGACCC CTGGNCCCCA TTCTNTTGGG GTCCATACAT ACTCTCCGAA 120
GATAGCAACT TGCTTCAGGT CAAAGTNAAC CCNAGAN 157

SEQ ID NO:2990

SEQUENCE LENGTH:114

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03533

SEQUENCE DESCRIPTION:

GATCTCCTTA CGTAGCAGCC AAAATAAATG AAGCAAAAGA CTTGCTAGAA ACAACCACCA 60
AACATTGATG CTTAAGGACC AACTGGAAGG AAAAAAAAAAG AGGGGACTTC GAAA 114

SEQ ID NO:2991

SEQUENCE LENGTH:155

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03534

SEQUENCE DESCRIPTION:

GATCTGATT ACAAGAAAAA GTCAGAGCTA AACACTAGTG ATGGCATAGC ATTACTGAAA 60
TCATTGTTT TTAATTTTCA TTTACTACAT TGTGAACTTG TGATTCAGAT TCCATTTTCT 120
CAGAGAATTA AAAACAAAAA AAGTACTCTT GTAAA 155

SEQ ID NO:2992

SEQUENCE LENGTH:156

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03535

SEQUENCE DESCRIPTION:

GATCTATTTC TNAGTATGTG GTTCATGCTG TTGTGAAAAA TGTTTACCT TTNACCTTTG 60
TCAGTTTGTA ATNAGAGGAT TTCCTTNAC CCTTTGTAGC TCAGAGAGCA CCTGATGTAT 120
CATCTCAAAC ACAATAAACA TGCTNCTGAA GGCAAA 156

SEQ ID NO:2993

SEQUENCE LENGTH:154
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03536
 SEQUENCE DESCRIPTION:
 GATCAAATTA GTAATTNNGT TTATGCTGCT CCTGATATAA CACTTTCAG CCTATAGCAG 60
 AAGCACATTT TCAGACTGCA ATATAGAGAC TGTGTTTCATG TGTAAGACT GAGCAGAACT 120
 GAAAAATTAC TTATNGGATA TNCATTCTNN NCTN 154

SEQ ID NO:2994
 SEQUENCE LENGTH:154
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03537
 SEQUENCE DESCRIPTION:
 GATCTCATTT ATAATTAAAT TATGTCTATT GGATTGTTTT NATGTACTT NATGTTTTNT 60
 NAAGAAATTG TGATTAAATA TAACTTAAAG ACTTTCTATT TTNCAGTTAT TTTAATTAGT 120
 TACTTCATTT AANCTTTTGG CATTNCATGA TTTN 154

SEQ ID NO:2995
 SEQUENCE LENGTH:153
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03538
 SEQUENCE DESCRIPTION:
 GATCATATAT GTNTTAGTGG ACAGGGGTCT GAAGTACACT GGAATTTACT GAGAACTTG 60
 TTTGTAAAAA CTATAGTTAA TAATTATTGC ATTTCTTAC AAAAATATAT TTTGGAAAAA 120
 TGTATACTGT CAATTAAAGT GTTTTGTGT AAA 153

SEQ ID NO:2996
 SEQUENCE LENGTH:153
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03539
 SEQUENCE DESCRIPTION:
 GATCAAACCTA CACATGNGTT TTCATTCCAA AAGTGGGTTT TAAANGCCTG GCTGCATCTG 60
 TATGNAATCA AGGCACACTC CAGGAAGACT GCCGCGTCGC GCCAACACGT CATACTCAAT 120
 GCCTCAGACT TTCATATTTT TGNNGTGCTG NNN 153

SEQ ID NO:2997
 SEQUENCE LENGTH:152
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03540
 SEQUENCE DESCRIPTION:

GATCCCAGCA TCTTCTCCAC TTCAGCGCTG AGTTCAGTAT ACACAAGTGT CTGCTACAGT 60
 CGCCAAATCA CCAGTATTTG CTTATATAGC AATGAGTTT ATTTTGTTA TTTGTTTGC 120
 AATAAAGGAT ATGAAGGTGG CTGGCTAGGA AA 152

SEQ ID NO:2998
 SEQUENCE LENGTH:152
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03541

SEQUENCE DESCRIPTION:
 GATCATTGG ATATAGCAAT CTACTCTGAG AAATGGAACA CAAGGAGTTA CCTATCACTT 60
 TCACTTATAA TTCCAAAAGA TGAATACAAC CATGTCCATG CTCAGATTCA AACAGTTTTTC 120
 CATATCACTT TTGGGTGGTA ATTACAGTTT TN 152

SEQ ID NO:2999
 SEQUENCE LENGTH:152
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03542

SEQUENCE DESCRIPTION:
 GATCCCTGTN TGCNCGNCCC CTCTGCAATG TATGCCCCTT GCCCCTTCCC CACACTAATA 60
 ATTTATATAT ATAAATATCT ATATGANGCT CTTAAAAAAA CATCCCAACC AAAACCAACC 120
 AAACAAAAAC ATCCTCACAA CTCCCCAGGA AA 152

SEQ ID NO:3000
 SEQUENCE LENGTH:151
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03543

SEQUENCE DESCRIPTION:
 GATCCAGAAG CAAACACAAG CAATGCAAGA CCTCCACAGA GTGAGCTTGG AGAGAGAGAA 60
 AGCCAAGATA AGAGAGGAGT ATGANGAGAA ANTCAGAAAAG CTGGAAGATA AAGTGGAGCA 120
 GGNAAGAGA AAGANGCAAA TGGNGANGAN N 151

SEQ ID NO:3001
 SEQUENCE LENGTH:151
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03544

SEQUENCE DESCRIPTION:
 GATCTGGAGA TAANTTTATG CCTTTGGCCA TAGACAGGAC TGGAAATCCA GTTCTGCCAC 60
 TTACTGGCTG TTTGACCTTA GGCAAGCCAC TCCTCCTTN TNAGCCTCAG TTTCTTTNCC 120
 TGTAAGATAA AAAGAATGAN TCATTACTAA A 151

SEQ ID NO:3002

SEQUENCE LENGTH:150

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03545

SEQUENCE DESCRIPTION:

GATCAGGGCT GGGGCGGGGA AACAAGGGAA GGACCTTGGA AGGGGCTGNN CCCAGGCCCTG 60
GGGGGCAGTC GTGGGAGCCC CTCTCANCTG TGGGGCTGGC ACAGAGCCCC AGGCAAGCTT 120
TTAATAAACT GTTGGTTATT CTAACAGAAA 150

SEQ ID NO:3003

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03546

SEQUENCE DESCRIPTION:

GATCTCAAAA ATAGGTAATT TTTCTTTGCC GACCTGTAAA AGTGTGCCAA TACACTAAAT 60
TTGTGATTTT AAATTAATTC CTCCAGCTGT TGAAATGAAG TCTGCCAAAT CTTGCTCTAA 120
CAATAAAAT GTTATCTAAA TGAAGTAAA 149

SEQ ID NO:3004

SEQUENCE LENGTH:149

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03547

SEQUENCE DESCRIPTION:

GATCCTAAAA GGGAAAATTG CTTGGTAAC TTTNAGATTC CTGTGGAATT GTGAATNCAT 60
ACTAAGCTTT CTGTGCAGTC TCACCATTG CATCACTGAG GATGAAACTN ACTTNGTNT 120
TTNGGAGAAA AAAAAGTGTN CTGCTTGTN 149

SEQ ID NO:3005

SEQUENCE LENGTH:242

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03548

SEQUENCE DESCRIPTION:

GATCCTAGGA TGCCTCCAG ACGCTCAGTC AGAAGTGCTG GAGGTGGGGC CTGGGAAGCT 60
GTATTTGTAA TNAACTCTGG NGTTTTTGT CCATTAAAGT GTATCTTGT CCATCCTATA 120
AGNTTANNGG AAAGAAAAAG CATCTCAAAI NAGTGTAAGT TGTCTTGAG AAAAAATGT 180
ATCAGACTTT TATGATTGA ATGAAATGTA TTATAGNAAA ANATAAACAC NTTTAAANTA 240
AA 242

SEQ ID NO:3006

SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

EP 0 679 716 A1

CLONE:HUMGS03549

SEQUENCE DESCRIPTION:

5 GATCCAGTTG TACTTAAGTG TGTAACAGGA ATATTTTGCA GAATATAGGT TTAAGTGAAT 60
 GAAGCCATAT TAATAACTGC ATTTTCCTAA CTTTGAAAAA TTTTGCAAAT GTCTTAGGTG 120
 ATTTAAATAA ATNAGTATTG GGCCTAAA 148

SEQ ID NO:3007

10 SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03550

SEQUENCE DESCRIPTION:

15 GATCATCGTG CTCTCAGACT CTGATTAGCT GCCTCCCTT CTCCTGCCT CCAGAATGTT 60
 CTGGGATAAC ATTTGGAGGA AGGTGGGAAG CAGATGACTG AGGAAGGGAT GGACTAAGCT 120
 AATCCCTTT TGGTGGTGT TCTTTAAA 148

SEQ ID NO:3008

20 SEQUENCE LENGTH:148

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03551

SEQUENCE DESCRIPTION:

25 GATCAGTCCA CCCAGAGTTA GACATTGTTT TTGTAGAAAA CAGGTATTTA TTATGTCTAG 60
 GGTTTTGTGT TTTTTTTTTT TCCTNANAGG NTAAAAGCCT TTATACAGAA ANAATTTGGA 120
 ACCTTNATA TAAAACCTTT TCTTTAAA 148

SEQ ID NO:3009

30 SEQUENCE LENGTH:171

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS03552

SEQUENCE DESCRIPTION:

40 GATCGCTGTG GTTCTTATTA TCAAAATTAA GTTTACTTGT ATACGGAACA ACCACAAGAA 60
 ATTTGATTCT GTAAAGAATC CTCTTAGCT GTGGCCTGGC AGTATATAAA TGGTGCTTTA 120
 TTAAACAGAA TACCTGTGGA GGAAATAAAG CACACTTGAT GTAAAANTAA A 171

SEQ ID NO:3010

45 SEQUENCE LENGTH:145

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03553

SEQUENCE DESCRIPTION:

50 GATCTTTTTA TTTTGCAATC CTGGGCCAGC TAGAAGCCAG GAGCTGATTG ACCTTTTAAC 60
 TTTTTCAGT GGCCACATTT TGGTTATCGA TGTACCTAGA AGTATGTAAA TNAGATTAAA 120
 TTCTCTTCT GGAAACACCC TGAAA 145

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5 SEQ ID NO:3011
 SEQUENCE LENGTH:144
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03554
 SEQUENCE DESCRIPTION:
 GATCATAGAG AATGGTGCTT TTTACTACAG TTAGCACATG CATTTTITAGA AACTACTACA 60
 10 TGTITTAGAG AATCTTTGCT GTGTATATGT AAAGTGTATT GTTCAACTGT TAACAAATAA 120
 TAAATTATTT CATTATTAAA GAAA 144

15 SEQ ID NO:3012
 SEQUENCE LENGTH:144
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03555
 SEQUENCE DESCRIPTION:
 20 GATCTGCCCT NCTCCTTCTA AAGGGTAAGT CATAATCTGT GTAATACTAC AATTNATGGG 60
 NTGCTCACTA TGCCCTGTTT CTNINCTAAA CAATTTACAT GTAATGTCTC ATTCCTCACA 120
 ATAACCCTTG TAAAGTGGGC ANNN 144

25 SEQ ID NO:3013
 SEQUENCE LENGTH:142
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03556
 SEQUENCE DESCRIPTION:
 30 GATCCCCAGC TGCCTCACTT CTCTCTTGAG AACTTGGCTC AGGGCTCCTG AGGACCTTTC 60
 CCAGCATTAC CTTCCCTTCC CTTGAAAGGC AATTGTTGGC TGTITTCATA AGCAGGAAAA 120
 NTAAACAGAA GTATAAAGGA AA 142

35 SEQ ID NO:3014
 SEQUENCE LENGTH:142
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
 CLONE:HUMGS03557
 SEQUENCE DESCRIPTION:
 40 GATCAAAATGT GCCTTAATAA ATTTNTTITC ATTTAGATTI CAAACAGTGA TAGACTTGCC 60
 ATTTTAATAC ACGTCATTGG AGGGCTGCGT ATTTGTAAAT AGCCTGATGC TCATTGGGA 120
 AAATAAACCA GTGAACAATA AA 142

45 SEQ ID NO:3015
 SEQUENCE LENGTH:147
 SEQUENCE TYPE:nucleic acid
 TOPOLOGY:linear
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CLONE:HUMGS03558

SEQUENCE DESCRIPTION:

5 GATCTAAAGA AACAGTTGGC TGTAGCTGAG GGGAAACCCC CTGAAGCCCC TAAAGGCAAG 60
 AAGAAAAAGT AAAAGACCTT GGCTCATAGA AAGTCACTTT AATAGATAGG GACAGTAATA 120
 AATAAATGTA CAATCTCTAT ATACAAA 147

SEQ ID NO:3016

10 SEQUENCE LENGTH:140

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03559

SEQUENCE DESCRIPTION:

15 GATCCCAGCA ATGAAGTGT CTAGGGAAAG TGGCTTCCTG CCCAACTGG ATGGGACACG 60
 TGGGGAGTGG GGTGGGGGA GCTATTCCA AGGCCCTCC CTGTTTCCCC AGCAATTAAA 120
 ACGGACTCAT CTCTGGCAAA 140

20 SEQ ID NO:3017

SEQUENCE LENGTH:153

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03560

25 SEQUENCE DESCRIPTION:

GATCTCAGCT TTGAGAAGCC TTCAGCTCCA GGGAAATCCAA GCCTCCACAG CGAGGGCAGC 60
 TGCTATTAT TTTCTAAAG AGAGTATTTT TATACAAACC TACCAAAATG GAATAAAAGG 120
 CTTGANGCTG TGGCCTGAGT GCCTCACTGG AAA 153

30 SEQ ID NO:3018

SEQUENCE LENGTH:134

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

35 CLONE:HUMGS03561

SEQUENCE DESCRIPTION:

GATCACGAAG GTGGTTTTC CAGGGCGAGG CTTATCCATT GCACTCCGGA TGTGCTGACC 60
 CCTGCGATT CCCCAAATGT GGGAACTCG ACTGCATAAT TTGTGGTAGT GGGGGACTGC 120
 GTTCGCGCTT TAAA 134

40 SEQ ID NO:3019

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

45 CLONE:HUMGS03562

SEQUENCE DESCRIPTION:

50 GATCTATCTT NCAGAAAGTA TGTTTTTCCT CATAAAAGTG CCTCTTAATT GGCCATTGTA 60
 CCAGCCACTT GTCCTAGCCA AATGTCCAAA ACACGCCCTT GGGCCCCGCC ACGTTACAAT 120
 CCACANNNNN N 131

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SEQ ID NO:3020

SEQUENCE LENGTH:131

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03563

SEQUENCE DESCRIPTION:

GATCACTGTN ATGTGTGGTC CATCTCTGAC CAAAACGTTA TGCAGTACGT GACTGTATCC 60
 TNATCCTCAA TAATCCTTGG TTATTATTCT AGAATTTCAA ATAAATGGAA TCATATCATT 120
 TACTATGTAA A 131

SEQ ID NO:3021

SEQUENCE LENGTH:207

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03564

SEQUENCE DESCRIPTION:

GATCCAGTGA ATGATTCAAG AGAGCTACAT TTGAAGCCTG TACAAAAGCT TATCCCTGTA 60
 ACACATGTGC CATAATATAC AAAGTTCTAC TTTCGTCACT CCTTAACATC TACCTCTCTG 120
 AATTTTCATG AATTTCTATT TCACAAGGGT AATTGTTTTA TATACACTGG CAGCAGCATA 180
 CAATAAANCT TAGTATGAAA CTTTAAA 207

SEQ ID NO:3022

SEQUENCE LENGTH:130

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03565

SEQUENCE DESCRIPTION:

GATCCTGAGA ATTACTTTTA ATAAAATCAT TTTTGTGCTG TTATTAAAC TAGNCNNGAA 60
 TTGCCTAAAN CCAAGAACTC TGCTTGATAA AATAAGCATA GTNTTAGGAA CAGCCATGCA 120
 GATATAANTN 130

SEQ ID NO:3023

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03566

SEQUENCE DESCRIPTION:

GATCATCGAC CCCCAAGGGA CCCGCAGACC CTTAAAAAAA TCACCCACAA CCCTCTGGAA 60
 GTGGCCTTGC CCGGTCCCCT TCCAGGGGGC GAGGTCGGCA AAGCAACATG GCAGAGCAGT 120
 CATAGGAAA 129

SEQ ID NO:3024

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

EP 0 679 716 A1

TOPOLOGY:linear

CLONE:HUMGS03567

SEQUENCE DESCRIPTION:

5 GATCACCTTT TTTTATGC GTTGTGAATA GCAGTCTGCA TCCTAAGTTT AAAATATTTG 60
AGAATCCTCT ATGGGACTCT CTGTAAATNT TTAAATACT GTTGTTTCA ATAAATATTT 120
TATACTAAA 129

SEQ ID NO:3025

10 SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03568

15 SEQUENCE DESCRIPTION:

GATCAGCTGT CCTCTCTGAA AAAAATTGCA CCNNTTTTC TTTTAAAAA TTTTGTGCA 60
TCTTCGTAGT AATGTAATTG TATTTATGC CTGCTTTTT ATAAAAAAT AAAATAAAAT 120
AAATGGAAA 129

20 SEQ ID NO:3026

SEQUENCE LENGTH:129

SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

25 CLONE:HUMGS03569

SEQUENCE DESCRIPTION:

30 GATCTAAATN TGA CTGTGGT TGCACATATC TGTGNATATA CTA AAAACCA NTGATTTGTA 60
CACTTTACAT GGGTGAGTTG TATGGTGTGT GAATTATATT TCAATAAAGC TGGGTTGTTT 120
TTGTCAAN 129

SEQ ID NO:3027

SEQUENCE LENGTH:140

SEQUENCE TYPE:nucleic acid

35 TOPOLOGY:linear

CLONE:HUMGS03570

SEQUENCE DESCRIPTION:

40 GATCCCAGGA TTCAGTATTC CTGCCCCAGA GGNCNTTGCT GGCTACTGGG TGTTAGTTTG 60
CAGTCTGTG TGTTCCCTC TCTATGACT GTGCCCTGG TTGTCAATAA AATATTCCT 120
GGCCTCCTGG AATCNTAAA 140

SEQ ID NO:3028

SEQUENCE LENGTH:127

45 SEQUENCE TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS03571

SEQUENCE DESCRIPTION:

50 GATCCTACGA CAGGACCCAG ATGCCAGTGA AAGTGACCAC AGCCCTGCTC TAGTCACCCC 60
GGAAGCTGAC CAGTCTACGC ACGGCCGAAG CTTGTC AAG GAAGTAAATG TAGTTAGAAA 120

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